

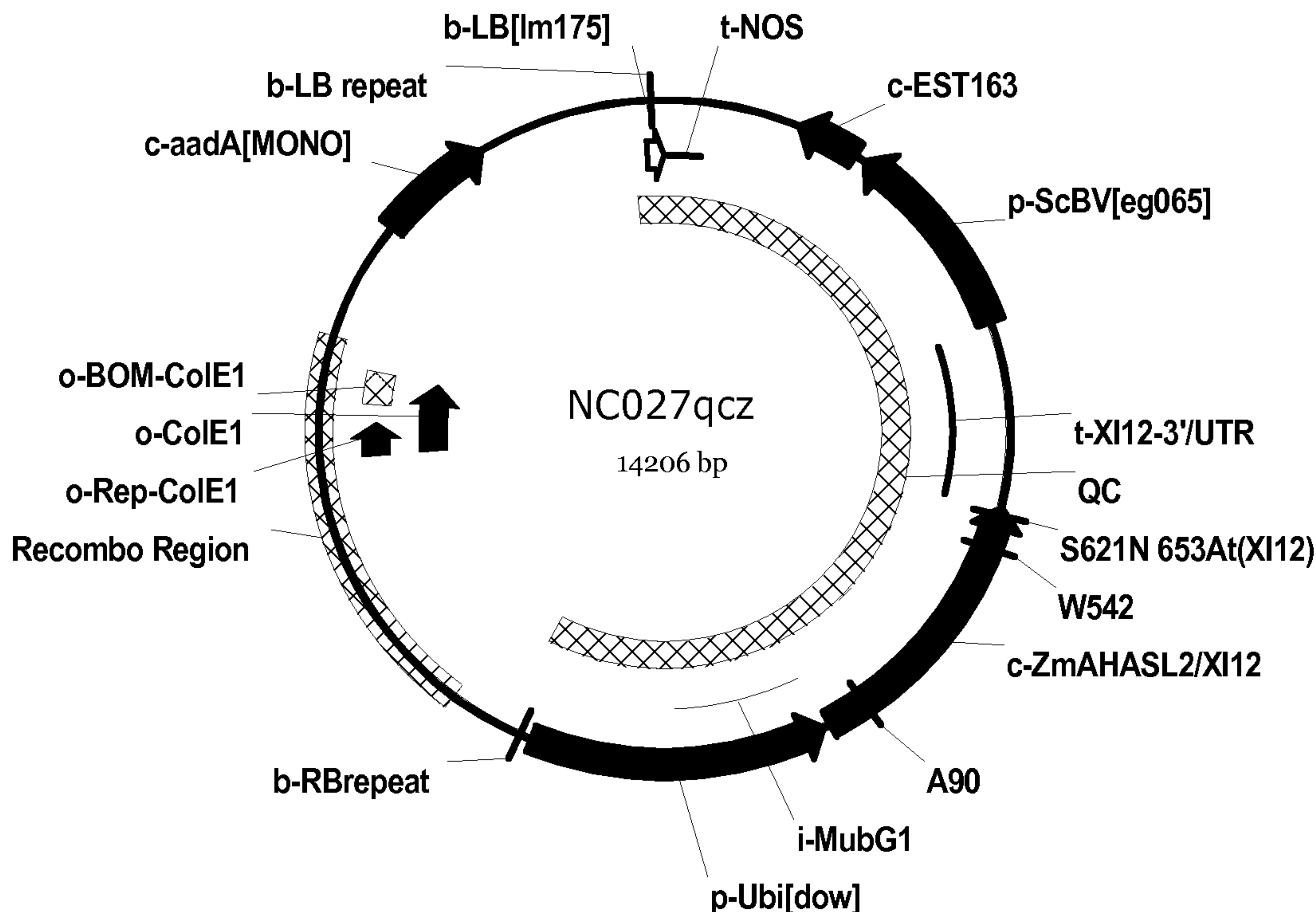


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(54) Titre : AUGMENTATION DE LA PRODUCTIVITE D'UNE PLANTE PAR COMBINAISON D'AGENTS CHIMIQUES
 AVEC DES MODIFICATIONS TRANSGENIQUES
 (54) Title: PLANT PRODUCTIVITY ENHANCEMENT BY COMBINING CHEMICAL AGENTS WITH TRANSGENIC
 MODIFICATIONS

Fig. 1



(57) Abrégé/Abstract:

The present invention relates to the enhancement of plant productivity by combining chemical agents with transgenic modifications.

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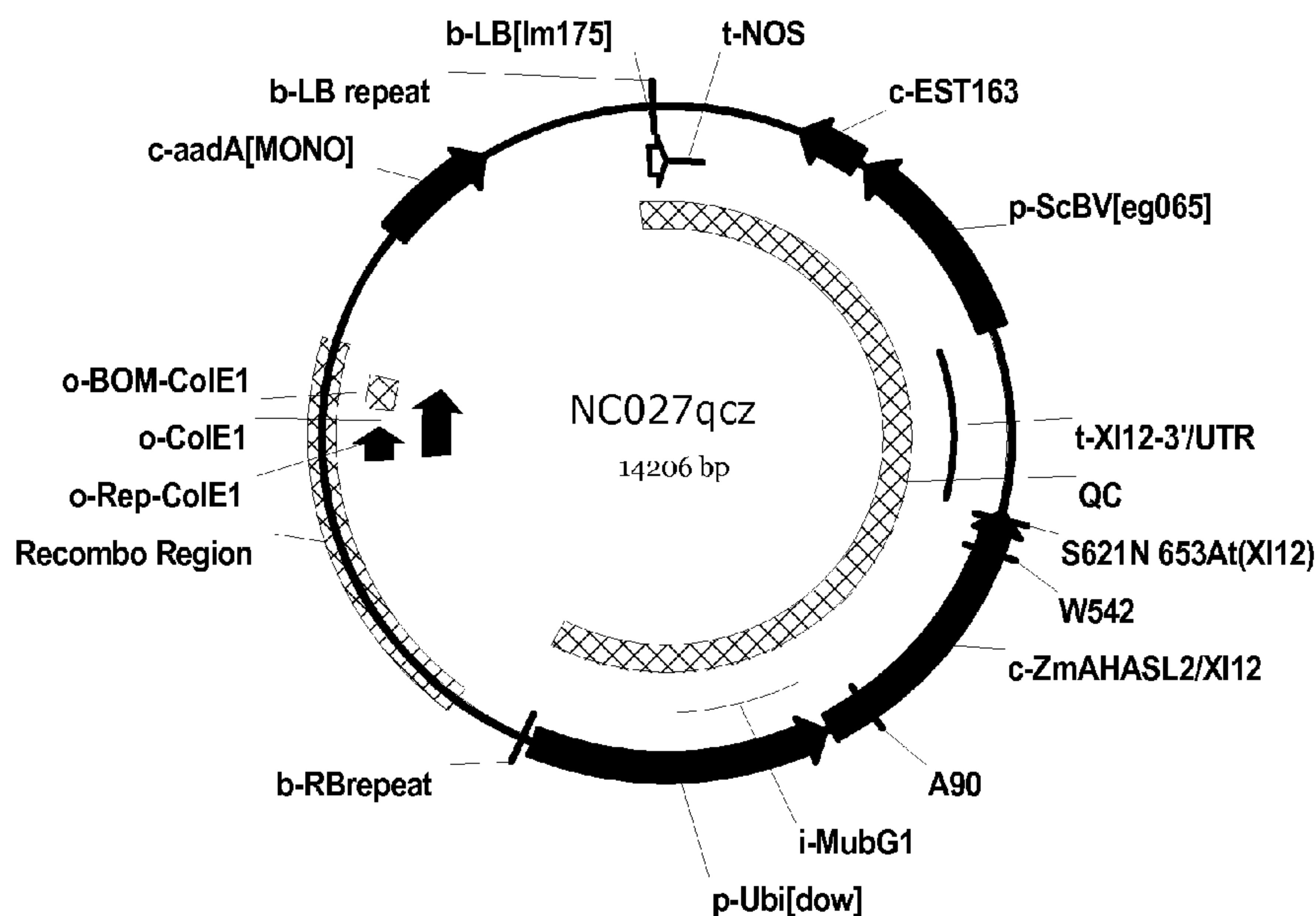
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[Continued on next page]

(54) Title: PLANT PRODUCTIVITY ENHANCEMENT BY COMBINING CHEMICAL AGENTS WITH TRANSGENIC MODIFICATIONS

Fig. 1



(57) Abstract: The present invention relates to the enhancement of plant productivity by combining chemical agents with transgenic modifications.

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Plant Productivity Enhancement by Combining Chemical Agents with Transgenic Modifications

The present invention relates to the enhancement of plant productivity by combining chemical agents with transgenic modifications.

5 Chemical amendments and transgenic modifications can both increase plant performance. Chemical agents can be applied e.g. as a seed coating or as a spray on a growing plant. When applied as a coating, chemical amendments may improve seed resistance to biotic and abiotic stresses and stimulate and/or improve germination as well as early germination. Seedlings are thus better able to establish in the greenhouse or
10 the field. Spray applications on growing plants may affect growth by e.g. enhancing plant metabolism, inducing plant vigor, modifying plant canopy and stem architecture, or by improving fruit set.

Many products that enhance plant performance or improve grain quality and quantity are on the market. For instance, fipronil is a broad-spectrum insecticide from the insecticide chemistry class of phenyl pyrazoles. It is highly effective against all major
15 insect pests in crop and non-crop markets. The most important applications are soil and seed treatment in crops and termite control in non-crops. Fipronil has been reported to enhance overall root system and root hair development, increase tiller number and productivity, increase photosynthetic capacity (plant greenness), increase leaf
20 area and plant height, stimulate early flowering and grain maturation leading to significant increases in yield (Fipronil-Worldwide technical Bulletin, BASF).

Transgenic plants, such as Round-up ready crops, have exhibited enhanced productivity, primarily due to elimination of competition for water and nutrients with weeds. Round-up ready crops are not susceptible to the herbicide when applied at field rates
25 (24-32 oz/A). Most weeds are susceptible to the herbicide, allowing more of the available nutrients to be sequestered by the crop plants and, therefore, increase yield.

Combinations of chemical, physical, biological, and transgenic approaches are used in integrated pest management (IPM). For example, a transgenic plant with increased resistance is the so called Bt corn (Bt = *Bacillus thuringiensis*), which has been modified to increase levels of certain crystal proteins. Bt is effective at controlling Lepidoptera larvae, most notably the corn borer (<http://www.extension.umn.edu/distribution/cropsystems/DC7055.html#ch2>). The protein is selective, generally not harming insects of other orders, such as the *Trichogramma minutum* wasp, which is also used to control corn borer
30 (<http://ipmworld.umn.edu/chapters/chippen.htm>). Crops carrying the Bt gene, therefore, have been considered compatible with biological control programs.

A combination of a transgenic event having activity against corn rootworm and treatment of the seed with certain pesticides provides unexpectedly synergistic advan-

tages to seeds having such treatment, showing unexpectedly superior efficacy in the protection against damage by corn rootworm is disclosed in US 6,593,273.

According to the teaching of the WO1999035913 treating transgenic useful plants which carry one or more genes expressing a pesticidal active ingredient, or which are
5 tolerant against herbicides or which are resistant against the attack of fungi, with a nitroimino- or nitroguanidino- compound for controlling pests, has a synergistic effect on the pests to be controlled.

A method for increasing the vigor and the yield of an agronomic plant is known from
10 US 20030060371, US 20040023081 or US 20030114308. The method includes treatment of a plant with herbicides or other pesticides, whereby the plant is a transgenic plant having a transgenic event that confers resistance to the herbicide or pesticide which is employed.

The advantages of applying chemicals and/or chemical compositions comprising at
15 least one active ingredient on the transgenic plants themselves to improve performance, however, are unknown. There is no known product system, which combines agrochemical application with transgenic modifications to enhance plant productivity and grain quality.

Object of the present invention is a new process for increasing plant health and/or controlling pests.

20 A further object is a method which integrates chemicals and transgenic material to improve plant performance.

The object is achieved according to the invention by providing the present method.

Summarized, the present invention relates to a method for increasing plant health
and/or controlling pests in plants with at least one transgenic modification related to
25 yield increase as compared to a corresponding wild-type plant comprising treating the location where the plant with at least one transgenic modification is growing or is expected to grow and/or the transgenic plant with at least one transgenic modification or propagation material of the plant with at least one transgenic modification with an effective amount of a chemical composition comprising at least one active ingredient.

30 In one embodiment of the invention the method of the invention comprises

a) treating the location where the plant with at least one transgenic
modification is growing or is expected to grow and/or treating the plant with at least
one transgenic modification or propagation material of the plant with at least one
transgenic modification with an effective amount of a chemical composition compris-
35 ing at least one active ingredient and

b) cultivating a transgenic plant with increased plant health and increased productivity as compared to a corresponding non-treated plant and growing said plant under conditions which permit the development of the plant.

In one embodiment the invention is related to a method for increasing plant productivity which comprises an increase in plant health and/or pest control.

Surprisingly, it has now been found that treating that plant with at least one transgenic modification related to yield increase with an effective amount of a chemical composition comprising at least one active ingredient results in a synergistic effect.

10 Synergistic effect in the present context means that

a) the use of a pesticide in combination with a transgenic modification exceeds the additive effect, to be expected on the pests to be controlled and thus extends the range of action of the active ingredient and of the active principle expressed by the transgenic plant and/or

15 b) results in an increase in plant health and increased yield.

The term "synergistic", however, is to be understood in this connection as synergistic pesticidal activity and/or synergistic plant health effects.

20 Synergistic pesticidal activity means extension of the pesticidal spectrum of action to other pests, for example to resistant strains; and/or reduction in the application rate of the pesticides, and/or sufficient control of the pests with the aid of the pesticides even at an application rate of the pesticides alone and the transgenic plant alone are entirely ineffective.

25

In one embodiment of the invention at least one transgenic modification of said plant does not confer resistance to the active ingredient which is employed.

According to the present invention, "increasing the plant productivity" means that certain plant traits are increased or improved by a measurable or noticeable amount over the same factor of the control, e.g. the plant produced under the same conditions, but without the application of the present invention, such as selected from the group consisting of: delay of senescence, root growth, longer panicles, increased or improved plant stand, the plant weight, plant height, emergence, improved visual appearance, improved protein content, more developed root system, tillering increase, increase in plant height, bigger leaf blade, less dead basal leaves, stronger tillers, greener leaf color, pigment content, photosynthetic activity, less fertilizers needed, less seeds needed, more productive tillers, earlier flowering, early grain maturity, less plant verse (lodging), increased shoot growth, early and improved germination, improved vitality of the plant, improved quality of the plant, improved quality of the fruits or vegetables (or

other products produced by the plant), improved self defence mechanism of the plant such as induced tolerance against fungi, bacteria, viruses and/or insects.

Synergistic pest control means as stated above that the use of a pesticide in combination with a transgenic modification exceeds the additive effect, to be expected on the pests to be controlled and thus extends the range of action of the pesticides and of the activity caused by the transgenic modification expressed by the transgenic plant and may be accompanied by effects such as improved self defence mechanism of the plant such as induced tolerance against fungi, bacteria, viruses and/or insects, but is not limited to improved self defence mechanism of the plant such as induced tolerance against fungi, bacteria, viruses and/or insects.

Pests mean not only insects, nematodes or arachnids but also phytopathogenic fungi.

In one embodiment of the invention, increased plant productivity means plants with improvements in fresh weight (FW), dry weight, and/or plant volume.

In one embodiment of the invention, increased plant productivity means e.g. plants with increased internode length, representing better plant growth and/or green vs. yellow plant material, representing greater photosynthetic capacity than the control.

In one embodiment of the invention, increased plant productivity means plants with increased greenness, internode length, leaf angle, implying that leaves were laying flatter and thus received more photosynthetic radiation, and/or increased plant area, representing more leaf surface area for photosynthesis than the control.

In one embodiment of the invention, increased plant productivity means plants with increased the yield and/or improved vigor.

In one embodiment of the invention, increased plant productivity means plants with an increase in any of the aforementioned traits or any combination of two or more of the aforementioned traits.

In one embodiment of the invention, an increased yield means an increase in a trait selected from the group consisting of biomass production, grain yield, starch content, oil content or protein content.

In one embodiment of the invention, an increased yield is obtained based upon an increase in plant productivity, e.g. increased plant health and/or pest control.

According to the present invention, "increased plant health" means that certain plant characteristics are increased or improved as compared to the wild-type plant such as selected from the group consisting of: delay of senescence, root growth, longer panicles, plant weight, plant height, emergence, improved visual appearance, protein content, oil content, starch content, more developed root system (improved root growth),

reduced ethylene (reduced production and/or inhibition of reception), tillering increase, increase in plant height, bigger leaf blade, less dead basal leaves, stronger tillers, greener leaf color, pigment content, photosynthetic activity, less input needed (such as fertilizers or water), less seeds needed, enhanced plant vigor, more productive tillers, earlier flowering, early grain maturity, less plant verse (lodging), increased shoot growth, increased plant stand and early and better germination, improved vitality of the plant, improved quality of the plant, improved quality of the fruits or vegetables (or other products produced by the plant), improved self-defense mechanism of the plant such as induced and improved tolerance against stress factors such as heat stress, cold stress, drought stress, UV stress and/or salt stress. Advantageous properties, obtained especially from treated seeds, are selected from the group consisting of improved germination and field establishment, better vigor, more homogen field establishment. Advantageous properties, obtained especially from foliar and/or in-furrow application are e.g. improved plant growth and plant development, better growth, more tillers, greener leaves, larger leaves, more biomass, better roots, improved abiotic stress tolerance of the plants, more grain yield, more biomass harvested, improved quality of the harvest (content of fatty acids, metabolites, oil etc.), more marketable products (e.g. improved size), improved process (e.g. longer shelf-life, better extraction of compounds), improved quality of seeds (for being seeded in the following seasons for seed production); or any other advantages familiar to a person skilled in the art.

In one embodiment of the invention, increased plant health means plants with an increase in any of the aforementioned traits or any combination of two or more of the aforementioned traits.

In one embodiment the invention provides a method for controlling pests and/or increasing plant health in plants with at least one transgenic modification related to yield increase comprising the application of a composition comprising at least one pesticide to the pests, or to the plant with at least one transgenic modification or propagation material of the plant with at least one transgenic modification.

According to the present invention, "pest control" or "controlling pests" means in one embodiment efficiently combating one or more pests selected from the group consisting of:

insects from the order of the lepidopterans (*Lepidoptera*), e.g. *Agrotis ypsilon*, *Agrotis segetum*, *Alabama argillacea*, *Anticarsia gemmatalis*, *Argyresthia conjugella*, *Autographa gamma*, *Bupalus piniarius*, *Cacoecia murinana*, *Capua reticulana*, *Cheimatobia brumata*, *Choristoneura fumiferana*, *Choristoneura occidentalis*, *Cirphis unipuncta*, *Cydia pomonella*, *Dendrolimus pini*, *Diaphania nitidalis*, *Diatraea grandiosella*, *Earias insulana*, *Elasmopalpus lignosellus*, *Eupoecilia ambiguella*, *Evetria bouliana*, *Feltia subterranea*, *Galleria mellonella*, *Grapholitha funebrana*,

Grapholitha molesta, *Heliothis armigera*, *Heliothis virescens*, *Heliothis zea*, *Hellula undalis*, *Hibernia defoliaria*, *Hyphantria cunea*, *Hyponomeuta malinellus*, *Keiferia lycopersicella*, *Lambdina fiscellaria*, *Laphygma exigua*, *Leucoptera coffeella*, *Leucoptera scitella*, *Lithocolletis blancardella*, *Lobesia botrana*, *Loxostege sticticalis*,
 5 *Lymantria dispar*, *Lymantria monacha*, *Lyonetia clerkella*, *Malacosoma neustria*, *Mamestra brassicae*, *Orgyia pseudotsugata*, *Ostrinia nubilalis*, *Panolis flammea*, *Pectinophora gossypiella*, *Peridroma saucia*, *Phalera bucephala*, *Phthorimaea operculella*, *Phyllocnistis citrella*, *Pieris brassicae*, *Plathypena scabra*, *Plutella xylostella*, *Pseudoplusia includens*, *Rhyacionia frustrana*, *Scrobipalpula absoluta*,
 10 *Sitotroga cerealella*, *Sparganothis pilleriana*, *Spodoptera frugiperda*, *Spodoptera littoralis*, *Spodoptera litura*, *Thaumatopoea pityocampa*, *Tortrix viridana*, *Trichoplusia ni* and *Zeiraphera canadensis*,

beetles (Coleoptera), e.g. *Agrius sinuatus*, *Agriotes lineatus*, *Agriotes obscurus*, *Amphimallus solstitialis*, *Anisandrus dispar*, *Anthonomus grandis*, *Anthonomus pomorum*, *Aphthona euphoridae*, *Athous haemorrhoidalis*, *Atomaria linearis*,
 15 *Blastophagus piniperda*, *Blitophaga undata*, *Bruchus rufimanus*, *Bruchus pisorum*, *Bruchus lentis*, *Byctiscus betulae*, *Cassida nebulosa*, *Cerotoma trifurcata*, *Cetonia aurata*, *Ceuthorrhynchus assimilis*, *Ceuthorrhynchus napi*, *Chaetocnema tibialis*, *Conoderus vespertinus*, *Crioceris asparagi*, *Ctenicera ssp.*, *Diabrotica longicornis*,
 20 *Diabrotica semipunctata*, *Diabrotica 12-punctata* *Diabrotica speciosa*, *Diabrotica virgifera*, *Epilachna varivestis*, *Epitrix hirtipennis*, *Eutinobothrus brasiliensis*, *Hylobius abietis*, *Hypera brunneipennis*, *Hypera postica*, *Ips typographus*, *Lema bilineata*, *Lema melanopus*, *Leptinotarsa decemlineata*, *Limonius californicus*, *Lissorhoptrus oryzophilus*, *Melanotus communis*, *Meligethes aeneus*, *Melolontha hippocastani*,
 25 *Melolontha melolontha*, *Oulema oryzae*, *Otiorrhynchus sulcatus*, *Otiorrhynchus ovatus*, *Phaedon cochleariae*, *Phyllobius pyri*, *Phyllotreta chrysocephala*, *Phyllophaga sp.*, *Phyllopertha horticola*, *Phyllotreta nemorum*, *Phyllotreta striolata*, *Popillia japonica*, *Sitona lineatus* and *Sitophilus granaria*,

flies, mosquitoes (Diptera), e.g. *Aedes aegypti*, *Aedes albopictus*, *Aedes vexans*, *Anastrepha ludens*, *Anopheles maculipennis*, *Anopheles crucians*, *Anopheles albimanus*, *Anopheles gambiae*, *Anopheles freeborni*, *Anopheles leucosphyrus*, *Anopheles minimus*, *Anopheles quadrimaculatus*, *Calliphora vicina*, *Ceratitis capitata*, *Chrysomya bezziana*, *Chrysomya hominivorax*, *Chrysomya macellaria*, *Chrysops discalis*, *Chrysops silacea*, *Chrysops atlanticus*, *Cochliomyia hominivorax*, *Contarinia sorghicola* *Cordylobia anthropophaga*, *Culicoides furens*, *Culex pipiens*, *Culex nigripalpus*,
 35 *Culex quinquefasciatus*, *Culex tarsalis*, *Culiseta inornata*, *Culiseta melanura*, *Dacus cucurbitae*, *Dacus oleae*, *Dasineura brassicae*, *Delia antique*, *Delia coarctata*, *Delia platura*, *Delia radicum*, *Dermatobia hominis*, *Fannia canicularis*, *Geomyza Tripunctata*, *Gasterophilus intestinalis*, *Glossina morsitans*, *Glossina palpalis*, *Glossina fuscipes*,
 40 *Glossina tachinoides*, *Haematobia irritans*, *Haplodiplosis equestris*, *Hippelates spp.*,

- Hylemyia platura*, *Hypoderma lineata*, *Leptoconops torrens*, *Liriomyza sativae*, *Liriomyza trifolii*, *Lucilia caprina*, *Lucilia cuprina*, *Lucilia sericata*, *Lycoria pectoralis*, *Mansonina titillanus*, *Mayetiola destructor*, *Musca autumnalis*, *Musca domestica*, *Muscina stabulans*, *Oestrus ovis*, *Opomyza florum*, *Oscinella frit*, *Pegomya hysocyami*, *Phorbia antiqua*, *Phorbia brassicae*, *Phorbia coarctata*, *Phlebotomus argentipes*, *Psorophora columbiae*, *Psila rosae*, *Psorophora discolor*, *Prosimulium mixtum*, *Rhagoletis cerasi*, *Rhagoletis pomonella*, *Sarcophaga haemorrhoidalis*, *Sarcophaga spp.*, *Simulium vittatum*, *Stomoxys calcitrans*, *Tabanus bovinus*, *Tabanus atratus*, *Tabanus lineola*, and *Tabanus similis*, *Tipula oleracea*, and *Tipula paludosa*
- 5
- thrips (Thysanoptera), e.g. *Dichromothrips corbetti*, *Dichromothrips ssp.*, *Frankliniella fusca*, *Frankliniella occidentalis*, *Frankliniella tritici*, *Scirtothrips citri*, *Thrips oryzae*, *Thrips palmi* and *Thrips tabaci*,
- 10
- termites (Isoptera), e.g. *Calotermes flavicollis*, *Leucotermes flavipes*, *Heterotermes aureus*, *Reticulitermes flavipes*, *Reticulitermes virginicus*, *Reticulitermes lucifugus*, *Reticulitermes santonensis*, *Reticulitermes grassei*, *Termes natalensis*, and *Coptotermes formosanus*,
- 15
- cockroaches (Blattaria - Blattodea), e.g. *Blattella germanica*, *Blattella asahinae*, *Periplaneta americana*, *Periplaneta japonica*, *Periplaneta brunnea*, *Periplaneta fuliginosa*, *Periplaneta australasiae*, and *Blatta orientalis*,
- 20
- bugs, aphids, leafhoppers, whiteflies, scale insects, cicadas (Hemiptera), e.g. *Acrosternum hilare*, *Blissus leucopterus*, *Cyrtopeltis notatus*, *Dysdercus cingulatus*, *Dysdercus intermedius*, *Eurygaster integriceps*, *Euschistus impictiventris*, *Leptoglossus phyllopus*, *Lygus lineolaris*, *Lygus pratensis*, *Nezara viridula*, *Piesma quadrata*, *Solubea insularis*, *Thyanta perditor*, *Acyrtosiphon onobrychis*, *Adelges laricis*, *Aphidula nasturtii*, *Aphis fabae*, *Aphis forbesi*, *Aphis pomi*, *Aphis gossypii*, *Aphis grossulariae*, *Aphis schneideri*, *Aphis spiraeicola*, *Aphis sambuci*, *Acyrtosiphon pisum*, *Aulacorthum solani*, *Bemisia argentifolii*, *Brachycaudus cardui*, *Brachycaudus helichrysi*, *Brachycaudus persicae*, *Brachycaudus prunicola*, *Brevicoryne brassicae*, *Capitophorus horni*, *Cerosiphia gossypii*, *Chaetosiphon fragaefolii*, *Cryptomyzus ribis*, *Dreyfusia nordmanniana*, *Dreyfusia piceae*, *Dysaphis radicola*, *Dysaulacorthum pseudosolani*, *Dysaphis plantaginea*, *Dysaphis pyri*, *Empoasca fabae*, *Hyalopterus pruni*, *Hyperomyzus lactucae*, *Macrosiphum avenae*, *Macrosiphum euphorbiae*, *Macrosiphon rosae*, *Megoura viciae*, *Melanaphis pyrarius*, *Metopolophium dirhodum*, *Myzus persicae*, *Myzus ascalonicus*, *Myzus cerasi*, *Myzus varians*, *Nasonovia ribis-nigri*, *Nilaparvata lugens*, *Pemphigus bursarius*, *Perkinsiella saccharicida*, *Phorodon humuli*, *Psylla mali*, *Psylla piri*, *Rhopalomyzus ascalonicus*, *Rhopalosiphum maidis*, *Rhopalosiphum padi*, *Rhopalosiphum insertum*, *Sappaphis mala*, *Sappaphis mali*, *Schizaphis graminum*, *Schizoneura lanuginosa*, *Sitobion avenae*, *Trialeurodes vaporariorum*, *Toxoptera au-*
- 25
- 30
- 35

rantiiand, *Viteus vitifolii*, *Cimex lectularius*, *Cimex hemipterus*, *Reduvius senilis*, *Triatoma* spp., and *Arilus critatus*.

ants, bees, wasps, sawflies (Hymenoptera), e.g. *Athalia rosae*, *Atta cephalotes*, *Atta capiguara*, *Atta cephalotes*, *Atta laevigata*, *Atta robusta*, *Atta sexdens*, *Atta texana*,
 5 *Crematogaster* spp., *Hoplocampa minuta*, *Hoplocampa testudinea*, *Lasius niger*,
Monomorium pharaonis, *Solenopsis geminata*, *Solenopsis invicta*, *Solenopsis richteri*,
Solenopsis xyloni, *Pogonomyrmex barbatus*, *Pogonomyrmex californicus*, *Pheidole megacephala*,
Dasymutilla occidentalis, *Bombus* spp., *Vespula squamosa*,
Paravespula vulgaris, *Paravespula pennsylvanica*, *Paravespula germanica*,
 10 *Dolichovespula maculata*, *Vespa crabro*, *Polistes rubiginosa*, *Camponotus floridanus*,
 and *Linepithema humile*,

crickets, grasshoppers, locusts (Orthoptera), e.g. *Acheta domestica*, *Gryllotalpa gryllotalpa*,
Locusta migratoria, *Melanoplus bivittatus*, *Melanoplus femurrubrum*,
Melanoplus mexicanus, *Melanoplus sanguinipes*, *Melanoplus spretus*, *Nomadacris*
 15 *septemfasciata*, *Schistocerca americana*, *Schistocerca gregaria*, *Dociostaurus maroccanus*,
Tachycines asynamorus, *Oedaleus senegalensis*, *Zonozerus variegatus*,
Hieroglyphus daganensis, *Kraussaria angulifera*, *Calliptamus italicus*, *Chortoicetes terminifera*,
 and *Locustana pardalina*,

Arachnoidea, such as arachnids (Acarina), e.g. of the families Argasidae, Ixodidae
 20 and Sarcoptidae, such as *Amblyomma americanum*, *Amblyomma variegatum*, *Amblyomma maculatum*,
Argas persicus, *Boophilus annulatus*, *Boophilus decoloratus*,
Boophilus microplus, *Dermacentor silvarum*, *Dermacentor andersoni*, *Dermacentor variabilis*,
Hyalomma truncatum, *Ixodes ricinus*, *Ixodes rubicundus*, *Ixodes scapularis*,
Ixodes holocyclus, *Ixodes pacificus*, *Ornithodoros moubata*, *Ornithodoros hermsi*,
 25 *Ornithodoros turicata*, *Ornithonyssus bacoti*, *Otobius megnini*, *Dermanyssus gallinae*,
Psoroptes ovis, *Rhipicephalus sanguineus*, *Rhipicephalus appendiculatus*,
Rhipicephalus evertsi, *Sarcoptes scabiei*, and Eriophyidae spp. such as *Aculus schlechtendali*,
Phyllocoptrata oleivora and *Eriophyes sheldoni*; Tarsonemidae spp. such as *Phytonemus pallidus*
 and *Polyphagotarsonemus latus*; Tenuipalpidae spp.
 30 such as *Brevipalpus phoenicis*; Tetranychidae spp. such as *Tetranychus cinnabarinus*,
Tetranychus kanzawai, *Tetranychus pacificus*, *Tetranychus telarius* and *Tetranychus urticae*,
Panonychus ulmi, *Panonychus citri*, and *Oligonychus pratensis*; Araneida, e.g. *Latrodectus mactans*,
 and *Loxosceles reclusa*,

fleas (Siphonaptera), e.g. *Ctenocephalides felis*, *Ctenocephalides canis*, *Xenopsylla cheopis*,
 35 *Pulex irritans*, *Tunga penetrans*, and *Nosopsyllus fasciatus*,

silverfish, firebrat (Thysanura), e.g. *Lepisma saccharina* and *Thermobia domestica*,

centipedes (Chilopoda), e.g. *Scutigera coleoptrata*,

millipedes (Diplopoda), e.g. *Narceus spp.*,

Earwigs (Dermaptera), e.g. *forficula auricularia*,

lice (Phthiraptera), e.g. *Pediculus humanus capitis*, *Pediculus humanus corporis*,
Pthirus pubis, *Haematopinus eurysternus*, *Haematopinus suis*, *Linognathus vituli*,
 5 *Bovicola bovis*, *Menopon gallinae*, *Menacanthus stramineus* and *Solenopotes*
capillatus.

According to the present invention, "pest control" or "controlling pests" means in one
 embodiment efficiently combating the pest selected from the group consisting of:
 phytopathogenic fungi, including soil-borne fungi, which derive especially from the
 10 classes of the Plasmodiophoromycetes, Peronosporomycetes (syn. Oomycetes),
 Chytridiomycetes, Zygomycetes, Ascomycetes, Basidiomycetes and Deuteromycetes
 (syn. Fungi imperfecti).

According to the present invention, "pest control" or "controlling pests" means in one
 embodiment efficiently controlling the plant diseases selected from the group
 15 consisting of:

Albugo spp. (white rust) on ornamentals, vegetables (e. g. *A. candida*) and sunflowers
 (e. g. *A. tragopogonis*); *Alternaria spp.* (*Alternaria* leaf spot) on vegetables, rape (*A.*
brassicola or *brassicae*), sugar beets (*A. tenuis*), fruits, rice, soybeans, potatoes (e. g.
A. solani or *A. alternata*), tomatoes (e. g. *A. solani* or *A. alternata*) and wheat;
 20 *Aphanomyces spp.* on sugar beets and vegetables; *Ascochyta spp.* on cereals and
 vegetables, e. g. *A. tritici* (anthracnose) on wheat and *A. hordei* on barley; *Bipolaris*
 and *Drechslera spp.* (teleomorph: *Cochliobolus spp.*) on corn (e. g. *D. maydis*), cere-
 als (e. g. *B. sorokiniana*: spot blotch), rice (e. g. *B. oryzae*) and turfs; *Blumeria* (for-
 25 merly *Erysiphe*) *graminis* (powdery mildew) on cereals (e. g. on wheat or barley); *Bo-*
trytis cinerea (teleomorph: *Botryotinia fuckeliana*: grey mold) on fruits and berries
 (e. g. strawberries), vegetables (e. g. lettuce, carrots, celery and cabbages), rape,
 flowers, vines, forestry plants and wheat; *Bremia lactucae* (downy mildew) on lettuce;
Ceratocystis (syn. *Ophiostoma*) *spp.* (rot or wilt) on broad-leaved trees and ever-
 greens, e. g. *C. ulmi* (Dutch elm disease) on elms; *Cercospora spp.* (*Cercospora* leaf
 30 spots) on corn, rice, sugar beets (e. g. *C. beticola*), sugar cane, vegetables, coffee,
 soybeans (e. g. *C. sojina* or *C. kikuchii*) and rice; *Cladosporium spp.* on tomatoes
 (e. g. *C. fulvum*: leaf mold) and cereals, e. g. *C. herbarum* (black ear) on wheat;
Claviceps purpurea (ergot) on cereals; *Cochliobolus* (anamorph: *Helminthosporium* of
Bipolaris) *spp.* (leaf spots) on corn (*C. carbonum*), cereals (e. g. *C. sativus*, anamorph:
 35 *B. sorokiniana*) and rice (e. g. *C. miyabeanus*, anamorph: *H. oryzae*); *Colletotrichum*
 (teleomorph: *Glomerella*) *spp.* (anthracnose) on cotton (e. g. *C. gossypii*), corn (e. g.
C. graminicola), soft fruits, potatoes (e. g. *C. coccodes*: black dot), beans (e. g. *C.*
lindemuthianum) and soybeans (e. g. *C. truncatum* or *C. gloeosporioides*); *Corticium*
spp., e. g. *C. sasakii* (sheath blight) on rice; *Corynespora cassiicola* (leaf spots) on
 40 soybeans and ornamentals; *Cyloconium spp.*, e. g. *C. oleaginum* on olive trees; *Cyl-*
indrocarpon spp. (e. g. fruit tree canker or young vine decline, teleomorph: *Nectria* or
Neonectria spp.) on fruit trees, vines (e. g. *C. liriodendri*, teleomorph: *Neonectria liri-*
dendri: Black Foot Disease) and ornamentals; *Dematophora* (teleomorph: *Rosellinia*)
necatrix (root and stem rot) on soybeans; *Diaporthe spp.*, e. g. *D. phaseolorum*
 45 (damping off) on soybeans; *Drechslera* (syn. *Helminthosporium*, teleomorph: *Pyreno-*
phora) *spp.* on corn, cereals, such as barley (e. g. *D. teres*, net blotch) and wheat
 (e. g. *D. tritici-repentis*: tan spot), rice and turf; Esca (dieback, apoplexy) on vines,
 caused by *Formitiporia* (syn. *Phellinus*) *punctata*, *F. mediterranea*, *Phaeoconiella*
chlamydospora (earlier *Phaeoacremonium chlamydosporum*), *Phaeoacremonium*
 50 *aleophilum* and/or *Botryosphaeria obtusa*; *Elsinoe spp.* on pome fruits (*E. pyri*), soft
 fruits (*E. veneta*: anthracnose) and vines (*E. ampelina*: anthracnose); *Entyloma*

5 *oryzae* (leaf smut) on rice; *Epicoccum* spp. (black mold) on wheat; *Erysiphe* spp. (powdery mildew) on sugar beets (*E. betae*), vegetables (e. g. *E. pisi*), such as cucurbits (e. g. *E. cichoracearum*), cabbages, rape (e. g. *E. cruciferarum*); *Eutypa lata* (Eutypa canker or dieback, anamorph: *Cytosporina lata*, syn. *Libertella blepharis*) on
 10 fruit trees, vines and ornamental woods; *Exserohilum* (syn. *Helminthosporium*) spp. on corn (e. g. *E. turcicum*); *Fusarium* (teleomorph: *Gibberella*) spp. (wilt, root or stem rot) on various plants, such as *F. graminearum* or *F. culmorum* (root rot, scab or head blight) on cereals (e. g. wheat or barley), *F. oxysporum* on tomatoes, *F. solani* on soybeans and *F. verticillioides* on corn; *Gaeumannomyces graminis* (take-all) on cereals
 15 (e. g. wheat or barley) and corn; *Gibberella* spp. on cereals (e. g. *G. zeae*) and rice (e. g. *G. fujikuroi*: Bakanae disease); *Glomerella cingulata* on vines, pome fruits and other plants and *G. gossypii* on cotton; Grainstaining complex on rice; *Guignardia bidwellii* (black rot) on vines; *Gymnosporangium* spp. on rosaceous plants and junipers, e. g. *G. sabiniae* (rust) on pears; *Helminthosporium* spp. (syn. *Drechslera*,
 20 teleomorph: *Cochliobolus*) on corn, cereals and rice; *Hemileia* spp., e. g. *H. vastatrix* (coffee leaf rust) on coffee; *Isariopsis clavispora* (syn. *Cladosporium vitis*) on vines; *Macrophomina phaseolina* (syn. *phaseoli*) (root and stem rot) on soybeans and cotton; *Microdochium* (syn. *Fusarium*) *nivale* (pink snow mold) on cereals (e. g. wheat or barley); *Microsphaera diffusa* (powdery mildew) on soybeans; *Monilinia* spp., e. g. *M. laxa*, *M. fructicola* and *M. fructigena* (bloom and twig blight, brown rot) on stone fruits and other rosaceous plants; *Mycosphaerella* spp. on cereals, bananas, soft fruits and ground nuts, such as e. g. *M. graminicola* (anamorph: *Septoria tritici*, Septoria blotch) on wheat or *M. fijiensis* (black Sigatoka disease) on bananas; *Peronospora* spp.
 25 (downy mildew) on cabbage (e. g. *P. brassicae*), rape (e. g. *P. parasitica*), onions (e. g. *P. destructor*), tobacco (*P. tabacina*) and soybeans (e. g. *P. manshurica*); *Phakopsora pachyrhizi* and *P. meibomia* (soybean rust) on soybeans; *Phialophora* spp. e. g. on vines (e. g. *P. tracheiphila* and *P. tetraspora*) and soybeans (e. g. *P. gregata*: stem rot); *Phoma lingam* (root and stem rot) on rape and cabbage and *P. betae* (root rot, leaf spot and damping-off) on sugar beets; *Phomopsis* spp. on sunflowers, vines
 30 (e. g. *P. viticola*: can and leaf spot) and soybeans (e. g. stem rot: *P. phaseoli*, teleomorph: *Diaporthe phaseolorum*); *Physoderma maydis* (brown spots) on corn; *Phytophthora* spp. (wilt, root, leaf, fruit and stem rot) on various plants, such as paprika and cucurbits (e. g. *P. capsici*), soybeans (e. g. *P. megasperma*, syn. *P. sojae*), potatoes and tomatoes (e. g. *P. infestans*: late blight) and broad-leaved trees (e. g. *P. ramorum*: sudden oak death); *Plasmodiophora brassicae* (club root) on cabbage, rape, radish and other plants; *Plasmopara* spp., e. g. *P. viticola* (grapevine downy mildew) on vines and *P. halstedii* on sunflowers; *Podosphaera* spp. (powdery mildew) on rosaceous plants, hop, pome and soft fruits, e. g. *P. leucotricha* on apples; *Polyomyxa* spp., e. g. on cereals, such as barley and wheat (*P. graminis*) and sugar beets
 40 (*P. betae*) and thereby transmitted viral diseases; *Pseudocercospora herpotrichoides* (eyespot, teleomorph: *Tapesia yallundae*) on cereals, e. g. wheat or barley; *Pseudoperonospora* (downy mildew) on various plants, e. g. *P. cubensis* on cucurbits or *P. humili* on hop; *Pseudopezizicola tracheiphila* (red fire disease or 'rotbrenner', anamorph: *Phialophora*) on vines; *Puccinia* spp. (rusts) on various plants, e. g. *P. triticina* (brown or leaf rust), *P. striiformis* (stripe or yellow rust), *P. hordei* (dwarf rust),
 45 *P. graminis* (stem or black rust) or *P. recondita* (brown or leaf rust) on cereals, such as e. g. wheat, barley or rye, and asparagus (e. g. *P. asparagi*); *Pyrenophora* (anamorph: *Drechslera*) *tritici-repentis* (tan spot) on wheat or *P. teres* (net blotch) on barley; *Pyricularia* spp., e. g. *P. oryzae* (teleomorph: *Magnaporthe grisea*, rice blast) on rice and *P. grisea* on turf and cereals; *Pythium* spp. (damping-off) on turf, rice, corn, wheat, cotton, rape, sunflowers, soybeans, sugar beets, vegetables and various other plants (e. g. *P. ultimum* or *P. aphanidermatum*); *Ramularia* spp., e. g. *R. collo-cygni* (Ramularia leaf spots, Physiological leaf spots) on barley and *R. beticola* on sugar beets; *Rhizoctonia* spp. on cotton, rice, potatoes, turf, corn, rape, potatoes, sugar beets, vegetables and various other plants, e. g. *R. solani* (root and stem rot) on soybeans, *R. solani* (sheath blight) on rice or *R. cerealis* (Rhizoctonia spring blight) on wheat or barley; *Rhizopus stolonifer* (black mold, soft rot) on strawberries, carrots, cabbage, vines and tomatoes; *Rhynchosporium secalis* (scald) on barley, rye and triticale; *Sarocladium oryzae* and *S. attenuatum* (sheath rot) on rice; *Sclerotinia* spp.
 60 (stem rot or white mold) on vegetables and field crops, such as rape, sunflowers (e. g. *S. sclerotiorum*) and soybeans (e. g. *S. rolfsii* or *S. sclerotiorum*); *Septoria* spp. on various plants, e. g. *S. glycines* (brown spot) on soybeans, *S. tritici* (Septoria blotch) on wheat and *S.* (syn. *Stagonospora*) *nodorum* (Stagonospora blotch) on cereals;

Uncinula (syn. *Erysiphe*) *necator* (powdery mildew, anamorph: *Oidium tuckeri*) on vines; *Setosphaeria* spp. (leaf blight) on corn (e. g. *S. turcicum*, syn. *Helminthosporium turcicum*) and turf; *Sphacelotheca* spp. (smut) on corn, (e. g. *S. reiliana*: head smut), sorghum and sugar cane; *Sphaerotheca fuliginea* (powdery mildew) on cucurbits;

5 *Spongospora subterranea* (powdery scab) on potatoes and thereby transmitted viral diseases; *Stagonospora* spp. on cereals, e. g. *S. nodorum* (*Stagonospora* blotch, teleomorph: *Leptosphaeria* [syn. *Phaeosphaeria*] *nodorum*) on wheat; *Synchytrium endobioticum* on potatoes (potato wart disease); *Taphrina* spp., e. g. *T. deformans* (leaf curl disease) on peaches and *T. pruni* (plum pocket) on plums; *Thielaviopsis* spp.

10 (black root rot) on tobacco, pome fruits, vegetables, soybeans and cotton, e. g. *T. basicola* (syn. *Chalara elegans*); *Tilletia* spp. (common bunt or stinking smut) on cereals, such as e. g. *T. tritici* (syn. *T. caries*, wheat bunt) and *T. controversa* (dwarf bunt) on wheat; *Typhula incarnata* (grey snow mold) on barley or wheat; *Urocystis* spp., e. g. *U. occulta* (stem smut) on rye; *Uromyces* spp. (rust) on vegetables, such as

15 beans (e. g. *U. appendiculatus*, syn. *U. phaseoli*) and sugar beets (e. g. *U. betae*); *Ustilago* spp. (loose smut) on cereals (e. g. *U. nuda* and *U. avenae*), corn (e. g. *U. maydis*: corn smut) and sugar cane; *Venturia* spp. (scab) on apples (e. g. *V. inaequalis*) and pears; and *Verticillium* spp. (wilt) on various plants, such as fruits and

20 ornamentals, vines, soft fruits, vegetables and field crops, e. g. *V. dahliae* on strawberries, rape, potatoes and tomatoes.

Further harmful fungi are selected from the group consisting of : Ascomycetes such as *Ophiostoma* spp., *Ceratocystis* spp., *Aureobasidium pullulans*, *Sclerophoma* spp., *Chaetomium* spp., *Humicola* spp., *Petriella* spp., *Trichurus* spp.; Basidiomycetes such as *Coniophora* spp., *Coriolus* spp., *Gloeophyllum* spp., *Lentinus* spp., *Pleurotus* spp.,

25 *Poria* spp., *Serpula* spp. and *Tyromyces* spp., Deuteromycetes such as *Aspergillus* spp., *Cladosporium* spp., *Penicillium* spp., *Trichorma* spp., *Alternaria* spp., *Paecilomyces* spp. and Zygomycetes such as *Mucor* spp., and in addition in the protection of stored products the following yeast fungi are worthy of note: *Candida* spp. and *Saccharomyces cerevisiae*.

30 According to the present invention, "pesticide" means a composition comprising in free form or in agrochemically useful salt form as active ingredient and at least one auxiliary.

In one embodiment the invention relates to compositions and to the use of these for controlling harmful plants.

35 According to the invention, the term "transgenic plant" means a plant with transgenic modification.

A "plant with transgenic modification" means a plant whose genetic material has been altered using techniques in genetics generally known as recombinant DNA technology.

40 The plant has at least one transgenic modification as compared with the wild-type plant, but it may have further transgenic modifications, so in total 2, 3, 4, 5, 6, 7, 8, 9 or even more.

The term "wild-type" means a plant without the aforementioned modification.

45 The terms "wild type", "control" or "reference" are exchangeable and can be a cell or a part of a plant such as an organelle or tissue, or a plant, which was not modified or treated according to the herein described process according to the invention. Accordingly, the plant used as wild type, control or reference corresponds to the plant as

much as possible and is in any other property but in the result of the process of the invention as identical to the subject matter of the invention as possible. Thus, the wild type, control or reference is treated identically or as identical as possible, saying that only conditions or properties might be different which do not influence the quality of the tested property.

Preferably, any comparison is carried out under analogous conditions. The term "analogous conditions" means that all conditions such as, for example, culture or growing conditions, assay conditions (such as buffer composition, temperature, substrates, pathogen strain, concentrations and the like) are kept identical between the experiments to be compared.

The "reference", "control", or "wild type" is preferably a subject, e.g. an organelle, a cell, a tissue, in particular a plant, which was not modified or treated according to the herein described process and is in any other property as similar to the subject matter of the invention as possible, preferably 95%, more preferred are 98%, even more preferred are 99,00%, in particular 99,10%, 99,30%, 99,50%, 99,70%, 99,90%, 99,99%, 99, 999% or more.

In one embodiment the transgenic plant used according to the invention with at least one transgenic modification as compared to a corresponding wild-type plant is a plant selected from the group according to table A:

20

Table A

A1	a) Plant with one or more increased or generated --activities in a plant cell conferring an altered trait as compared with the wild type,
	b) Plant with one or more increased or generated activities in a plant cell conferring an altered trait as compared with the wild type, whereby said trait is not resistance against the active ingredient of the invention.
A2	a) Plant with one or more reduced, repressed or deleted activities in a plant cell conferring an altered trait as compared with the wild type,
	b) Plant with one or more reduced, repressed or deleted activities in a plant cell conferring an altered trait as compared with the wild type, whereby said trait is not resistance against the active ingredient of the invention.

The term "activity" of a compound refers to the function of a compound in a biological system such as a cell, an organ or an organism. For example, the term "activity" of a

compound refers to the enzymatic function, regulatory function or its function as binding partner, transporter, regulator, or carrier, etc. of a compound.

The term "plant" includes according to the invention a plant cell, organelle, a plant tissue or a part thereof, such as seed, root, tuber, fruit, leave, flower, plant propagation material etc.

The term "plant propagation material" as used herein includes all the generative parts of the plant such as seeds and vegetative plant material such as cuttings and tubers (e.g. potatoes), which can be used for the multiplication of the plant. This includes seeds, roots, fruits, tubers, bulbs, rhizomes, shoots, sprouts and other parts of the plants. Seedlings and young plants, which are to be transplanted after germination or after emergence from soil, may also be included. These plant propagation materials may be treated prophylactically with a plant protection compound either at or before planting or transplanting.

For the purposes of the invention, as a rule the plural is intended to encompass the singular and vice versa.

Unless otherwise specified, the terms "polynucleotides", "nucleic acid" and "nucleic acid molecule" are interchangeably in the present context. Unless otherwise specified, the terms "peptide", "polypeptide" and "protein" are interchangeably in the present context. The term "sequence" may relate to polynucleotides, nucleic acids, nucleic acid molecules, peptides, polypeptides and proteins, depending on the context in which the term "sequence" is used. The terms "gene(s)", "polynucleotide", "nucleic acid sequence", "nucleotide sequence", or "nucleic acid molecule(s)" as used herein refer to a polymeric form of nucleotides of any length, either ribonucleotides or deoxyribonucleotides. The terms refer only to the primary structure of the molecule.

Thus, the terms "gene(s)", "polynucleotide", "nucleic acid sequence", "nucleotide sequence", or "nucleic acid molecule(s)" as used herein include double- and single-stranded DNA and/or RNA. They also include known types of modifications, e.g., methylation, "caps", substitutions of one or more of the naturally occurring nucleotides with an analog. Preferably, the DNA or RNA sequence comprises a coding sequence encoding the herein defined polypeptide.

A "coding sequence" is a nucleotide sequence, which is transcribed into a RNA, e.g. a regulatory RNA, such as a miRNA, a ta-siRNA, cosuppression molecule, a RNAi, a ribozyme, etc. or into a mRNA which is translated into a polypeptide when placed under the control of appropriate regulatory sequences. The boundaries of the coding sequence are determined by a translation start codon at the 5'-terminus and a translation stop codon at the 3'-terminus. A coding sequence can include, but is not limited to mRNA, cDNA, recombinant nucleotide sequences or genomic DNA, while introns may be present as well under certain circumstances.

As used in the present context a nucleic acid molecule may also encompass the untranslated sequence located at the 3' and at the 5' end of the coding gene region, for example at least 500, preferably 200, especially preferably 100, nucleotides of the sequence upstream of the 5' end of the coding region and at least 100, preferably 50,
5 especially preferably 20, nucleotides of the sequence downstream of the 3' end of the coding gene region. Using antisense, RNAi, snRNA, dsRNA, siRNA, miRNA, ta-siRNA, cosuppression, ribozyme etc. technology, the coding regions as well as the 5'-and/or 3'-regions can advantageously be used.

10 However, it is often advantageous only to choose the coding region for cloning and expression purposes.

In one embodiment of the present invention, "transgenic modification" means an increased or generated activity of a polypeptide which is the expression product of a coding region of a gene.

15 "Polypeptide" refers to a polymer of amino acid (amino acid sequence) and does not refer to a specific length of the molecule. Thus peptides and oligopeptides are included within the definition of polypeptide. This term does also refer to or include post-translational modifications of the polypeptide, for example, glycosylations, acetylations, phosphorylations and the like. Included within the definition are, for example,
20 polypeptides containing one or more analogs of an amino acid (including, for example, unnatural amino acids, etc.), polypeptides with substituted linkages, as well as other modifications known in the art, both naturally occurring and non-naturally occurring.

Plants and plant cells according to table A1 are disclosed in WO2004018687, WO2004092398, WO2006032708 which are incorporated by reference.

25 Plants and plant cells according to table A2 are disclosed in WO2004092349, WO2006032707 which are incorporated by reference.

The methods for generating such transgenic plants are widely known to those skilled in the art and described, for example, in the publications mentioned above, which are incorporated by reference.

30 In one embodiment transgenic plants with at least one transgenic modification as compared to a corresponding wild-type plant used in the process of the invention are plants as disclosed or generated from plant cells as disclosed in the publications as depicted in table B, column 2.

35 The publications as depicted in table B, column 2 are herewith incorporated by reference.

In one embodiment transgenic plants with at least one transgenic modification as compared to a corresponding wild-type plant used in the process of the invention are plants with one or more increased or generated activities selected from the group consisting of the activities as depicted in table B, column 5.

- 5 In one embodiment transgenic plants with at least one transgenic modification as compared to a corresponding wild-type plant used in the process of the invention are plants with one or more increased or generated activities selected from the group consisting of the activities as depicted in SEQ ID NO: 1 to 270 or homologs thereof.

10 In one embodiment, the method for producing a transgenic plant with at least one transgenic modification as compared to a corresponding wild-type plant comprises one or more of the following steps

15 a) stabilizing a protein conferring the increased expression of a protein encoded by the nucleic acid molecule as depicted in table B, column 1 or 3 or of the polypeptid as depicted in SEQ ID NO: 1 to 270;

b) stabilizing a mRNA conferring the increased expression of a protein encoded by the nucleic acid molecule as depicted in table B, column 1 or 3 or its homologs or of a mRNA encoding the polypeptide as depicted in SEQ ID NO: 1 to 270;

20 c) increasing the specific activity of a protein conferring the increased expression of a protein encoded by the nucleic acid molecule as depicted in table B, column 1 or 3 or of the polypeptide o as depicted in SEQ ID NO: 1 to 270 or decreasing the inhibitory regulation of the polypeptide as depicted in SEQ ID NO: 1 to 270;

25 d) generating or increasing the expression of an endogenous or artificial transcription factor mediating the expression of a protein conferring the increased expression of a protein encoded by the nucleic acid molecule as depicted in table B, column 1 or 3 or of the polypeptide as depicted in SEQ ID NO: 1 to 270;

30 e) stimulating activity of a protein conferring the increased expression of a protein encoded by the nucleic acid molecule as depicted in table B, column 1 or 3 or a polypeptide as depicted in SEQ ID NO: 1 to 270;

35 f) expressing a transgenic gene encoding a protein conferring the increased expression of a polypeptide encoded by the nucleic acid molecule as depicted in table B, column 1 or 3 or a polypeptide as depicted in SEQ ID NO: 1 to 270; and/or

5 g) increasing the copy number of a gene conferring the increased expression of a nucleic acid molecule encoding a polypeptide encoded by the nucleic acid molecule as depicted in table B, column 1 or 3 or the polypeptide as depicted in SEQ ID NO: 1 to 270, and/or ;

10 h) increasing the expression of the endogenous gene encoding the polypeptide as depicted in SEQ ID NO: 1 to 270 or its homologs by adding positive expression or removing negative expression elements, e.g. homologous recombination can be used to either introduce positive regulatory elements like for plants the 35S enhancer into the promoter or to remove repressor elements from regulatory regions. Further gene conversion methods can be used to disrupt repressor elements or to enhance to activity of positive elements-
15 positive elements can be randomly introduced in plants by T-DNA or transposon mutagenesis and lines can be identified in which the positive elements have been integrated near to a gene of the invention, the expression of which is thereby enhanced;
and/or

20 i) modulating growth conditions of the plant in such a manner, that the expression or activity of the gene encoding the protein as depicted in SEQ ID NO: 1 to 270 or the protein itself is enhanced;

j) selecting of organisms with especially high activity of the proteins of the invention from natural or from mutagenized resources and breeding them into the target organisms, eg the elite crops.

25

In one embodiment transgenic plants with at least one transgenic modification as compared to a corresponding wild-type plant used in the process of the invention are plants with one or more increased or generated activities selected from the group consisting of the polypeptides encoded by:

30 a) a nucleic acid molecule encoding the polypeptide as depicted in any of the SEQ ID NO: 1 to 270 or the homologs as depicted in SEQ ID NO: 271 to 273;

b) a nucleic acid molecule as depicted in table B, column 1 or 3;

35 c) a nucleic acid molecule, which, as a result of the degeneracy of the genetic code, can be derived from a polypeptide sequence as depicted in table B, column 1 or 3 and/or in SEQ ID NO: 1 to 270;

- d) a nucleic acid molecule having at least 30 % identity with the nucleic acid molecule sequence of a polynucleotide comprising the nucleic acid molecule according to a) to c);
- 5 e) a nucleic acid molecule encoding a polypeptide having at least 30 % identity with the amino acid sequence of the polypeptide encoded by the nucleic acid molecule of (a) to (c) and having the activity represented by a nucleic acid molecule of (a) to (c) ;
- f) nucleic acid molecule which hybridizes with a nucleic acid molecule of (a) to (c) under stringent hybridization conditions;
- 10 g) a nucleic acid molecule encoding a polypeptide which can be isolated with the aid of monoclonal or polyclonal antibodies made against a polypeptide encoded by one of the nucleic acid molecules of (a) to (e) and having the activity represented by the nucleic acid molecule comprising a polynucleotide of (a) to (c);
- 15 h) a nucleic acid molecule encoding a polypeptide comprising the consensus sequence or one or more polypeptide motifs resulting from 2 or more of the polypeptides as depicted in table B, column 1 or 3 and/or in SEQ ID NO: 1 to 270 and/or a consensus sequence as depicted in SEQ ID NO: 274 to 277;
- 20 h) a nucleic acid molecule encoding a polypeptide having the activity represented by a protein as depicted in table B, column 1 or 3 or 5 and/or SEQ ID NO: 1 to 270;
- i) nucleic acid molecule which comprises a polynucleotide, which is obtained by amplifying a cDNA library or a genomic library using the primers for the polynucleotides as depicted in table B, column 1 or 3 and/or SEQ ID NO: 1 to 270 which do not start at their 5'-end with the nucleotides ATA;
- 25 and
- j) a nucleic acid molecule which is obtainable by screening a suitable nucleic acid library under stringent hybridization conditions with a probe comprising a complementary sequence of a nucleic acid molecule of (a) or (b) or with a fragment thereof, having at least 15 nt, preferably 20 nt, 30 nt, 50 nt, 100 nt, 200 nt or 500 nt of a nucleic acid molecule complementary to a nucleic acid molecule sequence characterized in (a) to (e) and encoding a polypeptide having the activity represented by a protein comprising a polypeptide as depicted in table B, column 1 or 3 and/or SEQ ID NO: 1 to 270.
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- 35

40 In one embodiment transgenic plants with at least one transgenic modification as compared to a corresponding wild-type plant used in the process of the invention are plants with one or more increased or generated activities selected from the group

consisting of the yield increasing proteins which confers an increase in yield, plant health and/or plant productivity as compared to a corresponding non-transformed wild-type plant.

5 In one embodiment transgenic plants with at least one transgenic modification as compared to a corresponding wild-type plant used in the process of the invention are plants with one or more increased or generated activities selected from the group consisting of the SRP (stress related proteins) which confers an increase in tolerance and/or resistance to environmental stress as compared to a corresponding non-transformed wild-type plant.

10 In one embodiment transgenic plants with at least one transgenic modification as compared to a corresponding wild-type plant used in the process of the invention are plants with one or more increased or generated activities selected from the group consisting of the SRP (stress related proteins) which confers an increase in drought resistance as compared to a corresponding non-transformed wild-type plant.

15 In one embodiment transgenic plants with at least one transgenic modification as compared to a corresponding wild-type plant used in the process of the invention are plants with one or more increased or generated activities selected from the group consisting of the yield increasing proteins as shown in table B and/or SEQ ID NO: 1 to 270.

20 In one embodiment transgenic plants with at least one transgenic modification as compared to a corresponding wild-type plant used in the process of the invention are plants with one or more increased or generated activities selected from the group consisting of the yield increasing proteins as shown in table B and/or SEQ ID NO: 1 to 270.

25 As used herein, the term "environmental stress" refers to any sub-optimal growing condition and includes, but is not limited to, sub-optimal conditions associated with salinity, drought, temperature, metal, chemical, pathogenic and oxidative stresses, or combinations thereof. In preferred embodiments, environmental stress is drought and low water content. Wherein drought stress means any environmental stress which
30 leads to a lack of water content in plants, lack of water uptake potential or reduction of water supply to the plants.

In one embodiment of the invention the term "increased tolerance and/or resistance to environmental stress" relates to an increased resistance to water stress, which is produced as a secondary stress by chilling, freezing, heat, and salt, as a tertiary stress by
35 radiation, and, of course, as a primary stress during drought.

In a preferred embodiment of the invention the term "increased tolerance and/or resistance to environmental stress" relates to an increased drought resistance.

In one embodiment transgenic plants with at least one transgenic modification as compared to a corresponding wild-type plant used in the process of the invention are plants with an increased or generated activities of a polypeptide with an activity as indicated in table B, column 5, line No 1, 5, 7, 10, 11, 12, 16, 19, 20, 21, 23, 25, 27, 28, 30, 31, 33, 37, 39, 40, 42, 43, 91, 105, 107, 112, 150, 159, 164, 165, 166, 167, 168, 169, 170, 171, 172, 173, 174, 175, 176, 177, 178, 182, 186, 187, 188, 189, 190, 194, 196, 203, 204, 205, 206, 207, 209, 210, 211, 213, and/or SEQ ID NO: 1, 2, 3, 4, 5, 6, 7, 8, 9, 10, 11, 12, 13, 14, 15, 16, 17, 18, 19, 20, 21, 22, 23, 24, 25, 26, 27, 28, 29, 30, 31, 32, 46, 53, 266 respectively plants with an increased or generated activities of a polypeptide according to the sequence number as depicted in table B, column 3, line No 1, 5, 7, 10, 11, 12, 16, 19, 20, 21, 23, 25, 27, 28, 30, 31, 33, 37, 39, 40, 42, 43, 91, 105, 107, 112, 150, 159, 164, 165, 166, 167, 168, 169, 170, 171, 172, 173, 174, 175, 176, 177, 178, 182, 186, 187, 188, 189, 190, 194, 196, 203, 204, 205, 206, 207, 209, 210, 211, 213, and/or SEQ ID NO: 1, 2, 3, 4, 5, 6, 7, 8, 9, 10, 11, 12, 13, 14, 15, 16, 17, 18, 19, 20, 21, 22, 23, 24, 25, 26, 27, 28, 29, 30, 31, 32, 46, 53, 266 respectively plants with an increased or generated expression of the gene as depicted in table B, column 1, line No 1, 5, 7, 10, 11, 12, 16, 19, 20, 21, 23, 25, 27, 28, 30, 31, 33, 37, 39, 40, 42, 43, 91, 105, 107, 112, 150, 159, 164, 165, 166, 167, 168, 169, 170, 171, 172, 173, 174, 175, 176, 177, 178, 182, 186, 187, 188, 189, 190, 194, 196, 203, 204, 205, 206, 207, 209, 210, 211, 213 and/or SEQ ID NO: 1, 2, 3, 4, 5, 6, 7, 8, 9, 10, 11, 12, 13, 14, 15, 16, 17, 18, 19, 20, 21, 22, 23, 24, 25, 26, 27, 28, 29, 30, 31, 32, 46, 53, 266.

In one embodiment transgenic plants with at least one transgenic modification as compared to a corresponding wild-type plant used in the process of the invention are plants with an increased or generated activity of a polypeptide with an activity of a transcription factor, preferably of the subfamily of an "AP2 DOMAIN CONTAINING DEHYDRATION RESPONSIVE ELEMENT BINDING PROTEIN 1", preferably as depicted in SEQ ID NO: 1 and in table B, line 23, encoded by the gene EST163t.

In one embodiment the present invention relates to a method for increasing the plant health and plant productivity which comprises

- a) treating the locus where the plant with at least one transgenic modification is growing or is expected to grow, and/or the seeds and/or the plant with at least one transgenic modification from which the transgenic plant grows with an effective amount of a chemical composition comprising at least one active ingredient and
- b) cultivating and growing said seed and/or plant under conditions which permit the development of the plant,

and whereby the detection of increased plant health and/or increased plant productivity comprises at least one of the following steps:

- i) growing transgenic seedlings and/or plants in a greenhouse under optimal, well water conditions, preferably administrating supplemental nutrients and light,
- ii) collecting phenotypic data in an imaging procedure,
- iii) harvesting the plants for determining fresh weight, dry weight and/or plant volume and standardize and correlate the data from the imaging procedure with the physiological features,
- 5 iv) measuring with the imaging system, preferably scanalyzer, the plant volume, internode length, greenness, yellowness, leaf angle, area of the leaves, number of leaves and/or stem length of the plants
- 10 v) comparing the data of chemically treated plants with non treated plants

In one embodiment transgenic plants with at least one transgenic modification as compared to a corresponding wild-type plant used in the process of the invention are plants with one or more increased or generated activities selected from the group consisting of homologs of the above mentioned polypeptides and/or homologs of the nucleic acid molecules encoding said polypeptides.

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These homologs which are advantageously for the process according to the invention can be isolated based on their homology to the nucleic acid molecules disclosed herein using the sequences or part thereof as hybridization probe and following standard hybridization techniques under stringent hybridization conditions. In this context,

20 it is possible to use, for example, isolated nucleic acid molecules of at least 15, 20, 25, 30, 35, 40, 50, 60 or more nucleotides, preferably of at least 15, 20 or 25 nucleotides in length which hybridize under stringent conditions with the above-described nucleic acid molecules, in particular with those which encompass a nucleotide sequence of the nucleic acid molecule used in the process of the invention or encoding a protein used in the invention or of the nucleic acid molecule of the invention. Nucleic acid molecules with 30, 50, 100, 250 or more nucleotides may also be used.

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The term "homology" means that the respective nucleic acid molecules or encoded proteins are functionally and/or structurally equivalent. The nucleic acid molecules that are homologous to the nucleic acid molecules described above and that are derivatives of said nucleic acid molecules are, for example, variations of said nucleic acid molecules which represent modifications having the same biological function, in particular encoding proteins with the same or substantially the same biological function. They may be naturally occurring variations, such as sequences from other plant varieties or species, or mutations. These mutations may occur naturally or may be obtained

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35 by mutagenesis techniques. The allelic variations may be naturally occurring allelic variants as well as synthetically produced or genetically engineered variants. Structurally equivalents can, for example, be identified by testing the binding of said polypep-

tide to antibodies or computer based predictions. Structurally equivalent to have the similar immunological characteristic, e.g. comprise similar epitopes.

By "hybridizing" it is meant that such nucleic acid molecules hybridize under conventional hybridization conditions, preferably under stringent conditions such as described by, e.g., Sambrook (Molecular Cloning; A Laboratory Manual, 2nd Edition, Cold Spring Harbor Laboratory Press, Cold Spring Harbor, NY (1989)) or in Current Protocols in Molecular Biology, John Wiley & Sons, N. Y. (1989), 6.3.1-6.3.6.

Homolog polypeptides are polypeptides which comprises an amino acid sequence at least about 50% identical to an amino acid sequence shown in SEQ ID NO: 1 to 270. Preferably, the protein encoded by the nucleic acid molecule is at least about 60% identical to the sequence shown in SEQ ID NO: 1 to 270, more preferably at least about 70% identical to one of the sequences shown in SEQ ID NO: 1 to 270, even more preferably at least about 80%, 90%, 95% homologous to the sequence shown in SEQ ID NO: 1 to 270, and most preferably at least about 96%, 97%, 98%, or 99% identical to the sequence shown in SEQ ID NO: 1 to 270.

To determine the percentage homology (= identity, herein used interchangeably) of two amino acid sequences or of two nucleic acid molecules, the sequences are written one underneath the other for an optimal comparison (for example gaps may be inserted into the sequence of a protein or of a nucleic acid in order to generate an optimal alignment with the other protein or the other nucleic acid).

The amino acid residues or nucleic acid molecules at the corresponding amino acid positions or nucleotide positions are then compared. If a position in one sequence is occupied by the same amino acid residue or the same nucleic acid molecule as the corresponding position in the other sequence, the molecules are homologous at this position (i.e. amino acid or nucleic acid "homology" as used in the present context corresponds to amino acid or nucleic acid "identity". The percentage homology between the two sequences is a function of the number of identical positions shared by the sequences (i.e. % homology = number of identical positions/total number of positions x 100). The terms "homology" and "identity" are thus to be considered as synonyms.

For the determination of the percentage homology (= identity) of two or more amino acids or of two or more nucleotide sequences several computer software programs have been developed. The homology of two or more sequences can be calculated with for example the software fasta, which presently has been used in the version fasta 3 (W. R. Pearson and D. J. Lipman (1988), Improved Tools for Biological Sequence Comparison.PNAS 85:2444- 2448; W. R. Pearson (1990) Rapid and Sensitive Sequence Comparison with FASTP and FASTA, Methods in Enzymology 183:63 - 98; W. R. Pearson and D. J. Lipman (1988) Improved Tools for Biological Sequence Comparison.PNAS 85:2444- 2448; W. R. Pearson (1990); Rapid and Sensitive Se-

quence Comparison with FASTP and FASTAMethods in Enzymology 183:63 – 98). Another useful program for the calculation of homologies of different sequences is the standard blast program, which is included in the Biomax pedant software (Biomax, Munich, Federal Republic of Germany). This leads unfortunately sometimes to suboptimal results since blast does not always include complete sequences of the subject and the query. Nevertheless as this program is very efficient it can be used for the comparison of a huge number of sequences. The following settings are typically used for such a comparisons of sequences:

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-p Program Name [String]; -d Database [String]; default = nr; -i Query File [File In]; default = stdin; -e Expectation value (E) [Real]; default = 10.0; -m alignment view options: 0 = pairwise; 1 = query-anchored showing identities; 2 = query-anchored no identities; 3 = flat query-anchored, show identities; 4 = flat query-anchored, no identities; 5 = query-anchored no identities and blunt ends; 6 = flat query-anchored, no identities and blunt ends; 7 = XML Blast output; 8 = tabular; 9 tabular with comment lines [Integer]; default = 0; -o BLAST report Output File [File Out] Optional; default = stdout; -F Filter query sequence (DUST with blastn, SEG with others) [String]; default = T; -G Cost to open a gap (zero invokes default behavior) [Integer]; default = 0; -E Cost to extend a gap (zero invokes default behavior) [Integer]; default = 0; -X X dropoff value for gapped alignment (in bits) (zero invokes default behavior); blastn 30, megablast 20, tblastx 0, all others 15 [Integer]; default = 0; -l Show GI's in deflines [T/F]; default = F; -q Penalty for a nucleotide mismatch (blastn only) [Integer]; default = -3; -r Reward for a nucleotide match (blastn only) [Integer]; default = 1; -v Number of database sequences to show one-line descriptions for (V) [Integer]; default = 500; -b Number of database sequence to show alignments for (B) [Integer]; default = 250; -f Threshold for extending hits, default if zero; blastp 11, blastn 0, blastx 12, tblastn 13; tblastx 13, megablast 0 [Integer]; default = 0; -g Perform gapped alignment (not available with tblastx) [T/F]; default = T; -Q Query Genetic code to use [Integer]; default = 1; -D DB Genetic code (for tblast[nx] only) [Integer]; default = 1; -a Number of processors to use [Integer]; default = 1; -O SeqAlign file [File Out] Optional; -J Believe the query defline [T/F]; default = F; -M Matrix [String]; default = BLOSUM62; -W Word size, default if zero (blastn 11, megablast 28, all others 3) [Integer]; default = 0; -z Effective length of the database (use zero for the real size) [Real]; default = 0; -K Number of best hits from a region to keep (off by default, if used a value of 100 is recommended) [Integer]; default = 0; -P 0 for multiple hit, 1 for single hit [Integer]; default = 0; -Y Effective length of the search space (use zero for the real size) [Real]; default = 0; -S Query strands to search against database (for blast[nx], and tblastx); 3 is both, 1 is top, 2 is bottom [Integer]; default = 3; -T Produce HTML output [T/F]; default = F; -l Restrict search of database to list of GI's [String] Optional; -U Use lower case filtering of FASTA sequence [T/F] Optional; default = F; -y X dropoff value for ungapped extensions in bits (0.0 invokes default behavior); blastn 20, megablast 10, all others 7 [Real]; default = 0.0; -Z X dropoff value for final gapped alignment in bits (0.0 invokes default behavior); blastn/megablast 50, tblastx 0, all others 25 [Integer];

default = 0; -R PSI-TBLASTN checkpoint file [File In] Optional; -n MegaBlast search [T/F]; default = F; -L Location on query sequence [String] Optional; -A Multiple Hits window size, default if zero (blastn/megablast 0, all others 40 [Integer]; default = 0; -w Frame shift penalty (OOF algorithm for blastx) [Integer]; default = 0; -t Length of the largest intron allowed in tblastn for linking HSPs (0 disables linking) [Integer]; default = 0.

Results of high quality are reached by using the algorithm of Needleman and Wunsch or Smith and Waterman. Therefore programs based on said algorithms are preferred. Advantageously the comparisons of sequences can be done with the program PileUp (J. Mol. Evolution., 25, 351-360, 1987, Higgins et al., CABIOS, 5 1989: 151-153) or preferably with the programs Gap and BestFit, which are respectively based on the algorithms of Needleman and Wunsch [J. Mol. Biol. 48; 443-453 (1970)] and Smith and Waterman [Adv. Appl. Math. 2; 482-489 (1981)]. Both programs are part of the GCG software-package [Genetics Computer Group, 575 Science Drive, Madison, Wisconsin, USA 53711 (1991); Altschul et al. (1997) Nucleic Acids Res. 25:3389 et seq.]. Therefore preferably the calculations to determine the percentages of sequence homology are done with the program Gap over the whole range of the sequences. The following standard adjustments for the comparison of nucleic acid sequences were used: gap weight: 50, length weight: 3, average match: 10.000, average mismatch: 0.000.

Preferred transgenic plants are, for example, selected from the families Aceraceae, Anacardiaceae, Apiaceae, Asteraceae, Brassicaceae, Cactaceae, Cucurbitaceae, Euphorbiaceae, Fabaceae, Malvaceae, Nymphaeaceae, Papaveraceae, Rosaceae, Salicaceae, Solanaceae, Arecaceae, Bromeliaceae, Cyperaceae, Iridaceae, Liliaceae, Orchidaceae, Gentianaceae, Labiaceae, Magnoliaceae, Ranunculaceae, Carifoliaceae, Rubiaceae, Scrophulariaceae, Caryophyllaceae, Ericaceae, Polygonaceae, Violaceae, Juncaceae or Poaceae and preferably from a plant selected from the group of the families Apiaceae, Asteraceae, Brassicaceae, Cucurbitaceae, Fabaceae, Papaveraceae, Rosaceae, Solanaceae, Liliaceae or Poaceae. Preferred are crop plants such as plants advantageously selected from the group of the genus peanut, oilseed rape, canola, cotton, sunflower, sugar cane, safflower, olive, sesame, hazelnut, almond, avocado, bay, pumpkin/squash, linseed, soybeans, pistachio, borage, maize, wheat, rye, oats, sorghum and millet, triticale, rice, barley, cassava, potato, sugar beet, egg plant, alfalfa, and perennial grasses and forage plants, oil palm, vegetables (brassicas, root vegetables, tuber vegetables, pod vegetables, fruiting vegetables, onion vegetables, leafy vegetables and stem vegetables), buckwheat, Jerusalem artichoke, broad bean, vetches, lentil, dwarf bean, lupin, clover, potato, tomato, lettuce, onions and Lucerne.

In one preferred embodiment, the transgenic plant is selected from the families Aceraceae, Anacardiaceae, Apiaceae, Asteraceae, Brassicaceae, Cactaceae, Cucurbitaceae, Euphorbiaceae, Fabaceae, Malvaceae, Nymphaeaceae, Papaveraceae, Rosaceae, Salicaceae, Solanaceae, Arecaceae, Bromeliaceae, Cyperaceae, Iridaceae, Liliaceae, Orchidaceae, Gentianaceae, Labiaceae, Magnoliaceae, Ranunculaceae, Carifolaceae, Rubiaceae, Scrophulariaceae, Caryophyllaceae, Ericaceae, Polygonaceae, Violaceae, Juncaceae or Poaceae and preferably from a plant selected from the group of the families Apiaceae, Asteraceae, Brassicaceae, Cucurbitaceae, Fabaceae, Papaveraceae, Rosaceae, Solanaceae, Liliaceae or Poaceae. Preferred are crop plants and in particular plants mentioned herein above as host plants such as the families and genera mentioned above for example preferred the species *Anacardium occidentale*, *Calendula officinalis*, *Carthamus tinctorius*, *Cichorium intybus*, *Cynara scolymus*, *Helianthus annuus*, *Tagetes lucida*, *Tagetes erecta*, *Tagetes tenuifolia*; *Daucus carota*; *Corylus avellana*, *Corylus colurna*, *Borago officinalis*; *Brassica napus*, *Brassica rapa* ssp., *Sinapis arvensis* *Brassica juncea*, *Brassica juncea* var. *juncea*, *Brassica juncea* var. *crispifolia*, *Brassica juncea* var. *foliosa*, *Brassica nigra*, *Brassica sinapioides*, *Melanosinapis communis*, *Brassica oleracea*, *Arabidopsis thaliana*, *Anana comosus*, *Ananas ananas*, *Bromelia comosa*, *Carica papaya*, *Cannabis sativa*, *Ipomoea batatas*, *Ipomoea pandurata*, *Convolvulus batatas*, *Convolvulus tiliaceus*, *Ipomoea fastigiata*, *Ipomoea tiliacea*, *Ipomoea triloba*, *Convolvulus panduratus*, *Beta vulgaris*, *Beta vulgaris* var. *altissima*, *Beta vulgaris* var. *vulgaris*, *Beta maritima*, *Beta vulgaris* var. *perennis*, *Beta vulgaris* var. *conditiva*, *Beta vulgaris* var. *esculenta*, *Cucurbita maxima*, *Cucurbita mixta*, *Cucurbita pepo*, *Cucurbita moschata*, *Olea europaea*, *Manihot utilissima*, *Janipha manihot*, *Jatropha manihot*, *Manihot aipil*, *Manihot dulcis*, *Manihot manihot*, *Manihot melanobasis*, *Manihot esculenta*, *Ricinus communis*, *Pisum sativum*, *Pisum arvense*, *Pisum humile*, *Medicago sativa*, *Medicago falcata*, *Medicago varia*, *Glycine max* *Dolichos soja*, *Glycine gracilis*, *Glycine hispida*, *Phaseolus max*, *Soja hispida*, *Soja max*, *Cocos nucifera*, *Pelargonium grossularioides*, *Oleum cocoas*, *Laurus nobilis*, *Persea americana*, *Arachis hypogaea*, *Linum usitatissimum*, *Linum humile*, *Linum austriacum*, *Linum bienne*, *Linum angustifolium*, *Linum catharticum*, *Linum flavum*, *Linum grandiflorum*, *Adenolinum grandiflorum*, *Linum lewisii*, *Linum narbonense*, *Linum perenne*, *Linum perenne* var. *lewisii*, *Linum pratense*, *Linum trigynum*, *Punica granatum*, *Gossypium hirsutum*, *Gossypium arboreum*, *Gossypium barbadense*, *Gossypium herbaceum*, *Gossypium thurberi*, *Musa nana*, *Musa acuminata*, *Musa paradisiaca*, *Musa* spp., *Elaeis guineensis*, *Papaver orientale*, *Papaver rhoeas*, *Papaver dubium*, *Sesamum indicum*, *Piper aduncum*, *Piper amalago*, *Piper angustifolium*, *Piper auritum*, *Piper betel*, *Piper cubeba*, *Piper longum*, *Piper nigrum*, *Piper retrofractum*, *Artanthe adunca*, *Artanthe elongata*, *Peperomia elongata*, *Piper elongatum*, *Steffensia elongata*, *Hordeum vulgare*, *Hordeum jubatum*, *Hordeum murinum*, *Hordeum secalinum*, *Hordeum distichon* *Hordeum aegiceras*, *Hordeum hexastichon*, *Hordeum hexastichum*, *Hordeum irregulare*, *Hordeum sati-*

- vum, Hordeum secalinum, Avena sativa, Avena fatua, Avena byzantina, Avena fatua*
var. sativa, Avena hybrida, Sorghum bicolor, Sorghum halepense, Sorghum sacchara-
tum, Sorghum vulgare, Andropogon drummondii, Holcus bicolor, Holcus sorghum,
Sorghum aethiopicum, Sorghum arundinaceum, Sorghum caffrorum, Sorghum cer-
5 *num, Sorghum dochna, Sorghum drummondii, Sorghum durra, Sorghum guineense,*
Sorghum lanceolatum, Sorghum nervosum, Sorghum saccharatum, Sorghum subgla-
brescens, Sorghum verticilliflorum, Sorghum vulgare, Holcus halepensis, Sorghum
miliaceum millet, Panicum militaceum, Zea mays, Triticum aestivum, Triticum durum,
Triticum turgidum, Triticum hybernum, Triticum macha, Triticum sativum or Triticum
10 *vulgare, Coffea spp., Coffea arabica, Coffea canephora, Coffea liberica, Capsicum*
annuum, Capsicum annuum var. glabriusculum, Capsicum frutescens, Capsicum an-
nuum, Nicotiana tabacum, Solanum tuberosum, Solanum melongena, Lycopersicon
esculentum, Lycopersicon lycopersicum., Lycopersicon pyriforme, Solanum integri-
folium, Solanum lycopersicum Theobroma cacao or Camellia sinensis.
- 15 Anacardiaceae such as the genera Pistacia, Mangifera, Anacardium e.g. the species
Pistacia vera [pistachios, Pistazie], *Mangifer indica* [Mango] or *Anacardium occiden-*
tale [Cashew]; Asteraceae such as the genera Calendula, Carthamus, Centaurea,
Cichorium, Cynara, Helianthus, Lactuca, Locusta, Tagetes, Valeriana e.g. the species
Calendula officinalis [Marigold], *Carthamus tinctorius* [safflower], *Centaurea cyanus*
20 [cornflower], *Cichorium intybus* [blue daisy], *Cynara scolymus* [Artichoke], *Helianthus*
annus [sunflower], *Lactuca sativa, Lactuca crisper, Lactuca esculenta, Lactuca scari-*
ola L. ssp. sativa, Lactuca scariola L. var. integrata, Lactuca scariola L. var. integrifo-
lia, Lactuca sativa subsp. romana, Locusta communis, Valeriana locusta [lettuce],
Tagetes lucida, Tagetes erecta or Tagetes tenuifolia [Marigold]; Apiaceae such as the
25 genera Daucus e.g. the species *Daucus carota* [carrot]; Betulaceae such as the gen-
era Corylus e.g. the species *Corylus avellana* or *Corylus colurna* [hazelnut]; Boragina-
ceae such as the genera Borago e.g. the species *Borago officinalis* [borage]; Brassi-
caceae such as the genera Brassica, Melanosinapis, Sinapis, Arabidopsis e.g. the
species *Brassica napus, Brassica rapa ssp. [canola, oilseed rape, turnip rape],*
30 *Sinapis arvensis Brassica juncea, Brassica juncea var. juncea, Brassica juncea var.*
crispifolia, Brassica juncea var. foliosa, Brassica nigra, Brassica sinapioides, Melanos-
inapis communis [mustard], *Brassica oleracea* [fodder beet] or *Arabidopsis thaliana*;
Bromeliaceae such as the genera Anana, Bromelia e.g. the species *Anana comosus,*
Ananas ananas or *Bromelia comosa* [pineapple]; Caricaceae such as the genera
35 *Carica* e.g. the species *Carica papaya* [papaya]; Cannabaceae such as the genera
Cannabis e.g. the species *Cannabis sativa* [hemp], Convolvulaceae such as the gen-
era Ipomea, Convolvulus e.g. the species *Ipomoea batatas, Ipomoea pandurata,*
Convolvulus batatas, Convolvulus tiliaceus, Ipomoea fastigiata, Ipomoea tiliacea,
Ipomoea triloba or *Convolvulus panduratus* [sweet potato, Man of the Earth, wild po-
40 tato], Chenopodiaceae such as the genera Beta, i.e. the species *Beta vulgaris, Beta*

vulgaris var. altissima, *Beta vulgaris var. Vulgaris*, *Beta maritima*, *Beta vulgaris var. perennis*, *Beta vulgaris var. conditiva* or *Beta vulgaris var. esculenta* [sugar beet]; Cucurbitaceae such as the genera Cucurbita e.g. the species *Cucurbita maxima*, *Cucurbita mixta*, *Cucurbita pepo* or *Cucurbita moschata* [pumpkin, squash]; Elaeagnaceae such as the genera Elaeagnus e.g. the species *Olea europaea* [olive]; Ericaceae such as the genera Kalmia e.g. the species *Kalmia latifolia*, *Kalmia angustifolia*, *Kalmia microphylla*, *Kalmia polifolia*, *Kalmia occidentalis*, *Cistus chamaerhodendros* or *Kalmia lucida* [American laurel, broad-leafed laurel, calico bush, spoon wood, sheep laurel, alpine laurel, bog laurel, western bog-laurel, swamp-laurel]; Euphorbiaceae such as the genera Manihot, Janipha, Jatropha, Ricinus e.g. the species *Manihot utilissima*, *Janipha manihot*, *Jatropha manihot*, *Manihot aipil*, *Manihot dulcis*, *Manihot manihot*, *Manihot melanobasis*, *Manihot esculenta* [manihot, arrowroot, tapioca, cassava] or *Ricinus communis* [castor bean, Castor Oil Bush, Castor Oil Plant, Palma Christi, Wonder Tree]; Fabaceae such as the genera Pisum, Albizia, Cathormion, Feuillea, Inga, Pithecolobium, Acacia, Mimosa, Medicago, Glycine, Dolichos, Phaseolus, Soja e.g. the species *Pisum sativum*, *Pisum arvense*, *Pisum humile* [pea], *Albizia berteriana*, *Albizia julibrissin*, *Albizia lebbeck*, *Acacia berteriana*, *Acacia littoralis*, *Albizia berteriana*, *Albizia berteriana*, *Cathormion berteriana*, *Feuillea berteriana*, *Inga fragrans*, *Pithecolobium berterianum*, *Pithecolobium fragrans*, *Pithecolobium berterianum*, *Pseudalbizia berteriana*, *Acacia julibrissin*, *Acacia nemu*, *Albizia nemu*, *Feuillea julibrissin*, *Mimosa julibrissin*, *Mimosa speciosa*, *Sericanrda julibrissin*, *Acacia lebbeck*, *Acacia macrophylla*, *Albizia lebbek*, *Feuillea lebbeck*, *Mimosa lebbeck*, *Mimosa speciosa* [bastard logwood, silk tree, East Indian Walnut], *Medicago sativa*, *Medicago falcata*, *Medicago varia* [alfalfa] *Glycine max* *Dolichos soja*, *Glycine gracilis*, *Glycine hispida*, *Phaseolus max*, *Soja hispida* or *Soja max* [soybean]; Geraniaceae such as the genera Pelargonium, Cocos, Oleum e.g. the species *Cocos nucifera*, *Pelargonium grossularioides* or *Oleum cocois* [coconut]; Gramineae such as the genera Saccharum e.g. the species *Saccharum officinarum*; Juglandaceae such as the genera Juglans, Wallia e.g. the species *Juglans regia*, *Juglans ailanthifolia*, *Juglans sieboldiana*, *Juglans cinerea*, *Wallia cinerea*, *Juglans bixbyi*, *Juglans californica*, *Juglans hindsii*, *Juglans intermedia*, *Juglans jamaicensis*, *Juglans major*, *Juglans microcarpa*, *Juglans nigra* or *Wallia nigra* [walnut, black walnut, common walnut, persian walnut, white walnut, butternut, black walnut]; Lauraceae such as the genera Persea, Laurus e.g. the species laurel *Laurus nobilis* [bay, laurel, bay laurel, sweet bay], *Persea americana* *Persea americana*, *Persea gratissima* or *Persea persea* [avocado]; Leguminosae such as the genera Arachis e.g. the species *Arachis hypogaea* [peanut]; Linaceae such as the genera Linum, Adenolinum e.g. the species *Linum usitatissimum*, *Linum humile*, *Linum austriacum*, *Linum bienne*, *Linum angustifolium*, *Linum catharticum*, *Linum flavum*, *Linum grandiflorum*, *Adenolinum grandiflorum*, *Linum lewisii*, *Linum narbonense*, *Linum perenne*, *Linum perenne var. lewisii*, *Linum pratense* or *Linum trigynum* [flax, linseed]; Lythrarieae such as the genera Punica e.g. the

species *Punica granatum* [pomegranate]; Malvaceae such as the genera *Gossypium* e.g. the species *Gossypium hirsutum*, *Gossypium arboreum*, *Gossypium barbadense*, *Gossypium herbaceum* or *Gossypium thurberi* [cotton]; Musaceae such as the genera *Musa* e.g. the species *Musa nana*, *Musa acuminata*, *Musa paradisiaca*, *Musa* spp. [banana]; Onagraceae such as the genera *Camissonia*, *Oenothera* e.g. the species *Oenothera biennis* or *Camissonia brevipes* [primrose, evening primrose]; Palmae such as the genera *Elacis* e.g. the species *Elaeis guineensis* [oil palm]; Papaveraceae such as the genera *Papaver* e.g. the species *Papaver orientale*, *Papaver rhoeas*, *Papaver dubium* [poppy, oriental poppy, corn poppy, field poppy, shirley poppies, field poppy, long-headed poppy, long-pod poppy]; Pedaliaceae such as the genera *Sesamum* e.g. the species *Sesamum indicum* [sesame]; Piperaceae such as the genera *Piper*, *Artanthe*, *Peperomia*, *Steffensia* e.g. the species *Piper aduncum*, *Piper amalago*, *Piper angustifolium*, *Piper auritum*, *Piper betel*, *Piper cubeba*, *Piper longum*, *Piper nigrum*, *Piper retrofractum*, *Artanthe adunca*, *Artanthe elongata*, *Peperomia elongata*, *Piper elongatum*, *Steffensia elongata*. [Cayenne pepper, wild pepper]; Poaceae such as the genera *Hordeum*, *Secale*, *Avena*, *Sorghum*, *Andropogon*, *Holcus*, *Panicum*, *Oryza*, *Zea*, *Triticum* e.g. the species *Hordeum vulgare*, *Hordeum jubatum*, *Hordeum murinum*, *Hordeum secalinum*, *Hordeum distichon*, *Hordeum aegiceras*, *Hordeum hexastichon.*, *Hordeum hexastichum*, *Hordeum irregulare*, *Hordeum sativum*, *Hordeum secalinum* [barley, pearl barley, foxtail barley, wall barley, meadow barley], *Secale cereale* [rye], *Avena sativa*, *Avena fatua*, *Avena byzantina*, *Avena fatua* var. *sativa*, *Avena hybrida* [oat], *Sorghum bicolor*, *Sorghum halepense*, *Sorghum saccharatum*, *Sorghum vulgare*, *Andropogon drummondii*, *Holcus bicolor*, *Holcus sorghum*, *Sorghum aethiopicum*, *Sorghum arundinaceum*, *Sorghum caffrorum*, *Sorghum cernuum*, *Sorghum dochna*, *Sorghum drummondii*, *Sorghum durra*, *Sorghum guineense*, *Sorghum lanceolatum*, *Sorghum nervosum*, *Sorghum saccharatum*, *Sorghum subglabrescens*, *Sorghum verticilliflorum*, *Sorghum vulgare*, *Holcus halepensis*, *Sorghum miliaceum* millet, *Panicum militaceum* [*Sorghum*, millet], *Oryza sativa*, *Oryza latifolia* [rice], *Zea mays* [corn, maize] *Triticum aestivum*, *Triticum durum*, *Triticum turgidum*, *Triticum hybernum*, *Triticum macha*, *Triticum sativum* or *Triticum vulgare* [wheat, bread wheat, common wheat], Proteaceae such as the genera *Macadamia* e.g. the species *Macadamia integrifolia* [macadamia]; Rubiaceae such as the genera *Coffea* e.g. the species *Coffea* spp., *Coffea arabica*, *Coffea canephora* or *Coffea liberica* [coffee]; Scrophulariaceae such as the genera *Verbascum* e.g. the species *Verbascum blattaria*, *Verbascum chaixii*, *Verbascum densiflorum*, *Verbascum lagurus*, *Verbascum longifolium*, *Verbascum lychnitis*, *Verbascum nigrum*, *Verbascum olympicum*, *Verbascum phlomoides*, *Verbascum phoenicum*, *Verbascum pulverulentum* or *Verbascum thapsus* [mullein, white moth mullein, nettle-leaved mullein, dense-flowered mullein, silver mullein, long-leaved mullein, white mullein, dark mullein, greek mullein, orange mullein, purple mullein, hoary mullein, great mullein]; Solanaceae such as the genera *Capsicum*, *Nicotiana*, *Solanum*, *Lycopersicon* e.g. the species *Capsicum annuum*,

Capsicum annuum var. *glabriusculum*, *Capsicum frutescens* [pepper], *Capsicum annuum* [paprika], *Nicotiana tabacum*, *Nicotiana alata*, *Nicotiana attenuata*, *Nicotiana glauca*, *Nicotiana langsdorffii*, *Nicotiana obtusifolia*, *Nicotiana quadrivalvis*, *Nicotiana repanda*, *Nicotiana rustica*, *Nicotiana sylvestris* [tobacco], *Solanum tuberosum* [potato], *Solanum melongena* [egg-plant] (*Lycopersicon esculentum*, *Lycopersicon lycopersicum*., *Lycopersicon pyriforme*, *Solanum integrifolium* or *Solanum lycopersicum* [tomato]; Sterculiaceae such as the genera *Theobroma* e.g. the species *Theobroma cacao* [cacao]; Theaceae such as the genera *Camellia* e.g. the species *Camellia sinensis*) [tea].

10 In a further embodiment of the invention the plant with the transgenic modification is derived from a monocotyledonous plant.

In a further embodiment of the invention the plant with the transgenic modification is derived from a dicotyledonous plant.

15 In a further embodiment of the invention the plant with the transgenic modification is derived from a gymnosperm plant, preferably selected from the group of spruce, pine and fir.

In a further embodiment the process of the invention comprises treating the plant with an effective amount of a chemical composition comprising at least one active ingredient.

20 In a further embodiment of the invention the active ingredient (B) is an active compound selected from the group consisting of

B1) an active compound that inhibits the mitochondrial respiration (breathing) chain at the level of the b/c₁ complex: famoxadone and strobilurins selected from the group consisting of pyraclostrobin, kresoxim-methyl, dimoxystrobin, picoxystrobin, ZJ 0712, trifloxystrobin, enestroburin, orysastrobin, metominostrobin, azoxystrobin, fluoxastrobin, metominostrobin, orysastrobin, pyribencarb, trifloxystrobin, 2-(2-(6-(3-chloro-2-methyl-phenoxy)-5-fluoropyrimidin-4-yloxy)-phenyl)-2-methoxyimino-N-methyl-acetamide, 3-methoxy-2-(2-(N-(4-methoxy-phenyl)-cyclopropane-carboximidoylsulfanylmethyl)-phenyl)-acrylic acid methyl ester, methyl (2-chloro-5-[1-(3-methylbenzyloxyimino)ethyl]benzyl)carbamate and 2-(2-(3-(2,6-dichlorophenyl)-1-methylallylideneaminooxymethyl)-phenyl)-2-methoxyimino-N-methyl-

35 preferably famoxadone, pyraclostrobin, kresoxim-methyl, dimoxystrobin, picoxystrobin, ZJ 0712, trifloxystrobin, orysastrobin, azoxystrobin, fluoxastrobin

- 5 B2) carboxylic amides selected from benalaxyl, benodanil, boscalid, carboxin, mepronil, fenfuram, fenhexamid, futolanil, furametpyr, metalaxyl, ofurace, oxadixyl, oxycarboxin, penthiopyrad, thifluzamid, tiadinil, 4-difluoromethyl-2-methyl-thiazol-5-carboxylic acid-(4'-bromo-biphenyl-2-yl)-amide, 4-difluoromethyl-2-methyl-thiazol-5-carboxylic acid-(4'-trifluoromethyl-biphenyl-2-yl)-amide, 4-difluoromethyl-2-methyl-thiazol-5-carboxylic acid-(4'-chloro-3'-fluoro-biphenyl-2-yl)-amide, 3-difluoromethyl-1-methyl-pyrazol-4-carboxylic acid-(3',4'-dichloro-4-fluoro-biphenyl-2-yl)-amide, 3,4-dichloro-isothiazol-5-carboxylic acid-(2-cyano-phenyl)-amide, dimethomorph, flumorph, flumetover, fluopicolide (picobenzamid), zoxamide, carpropamide, diclocymet, mandipropamid, N-(2-(4-[3-(4-chloro-phenyl)-prop-2-inyloxy]-3-methoxy-phenyl)-ethyl)-2-methanesulfonylamino-3-methyl-butyramid and N-(2-(4-[3-(4-chloro-phenyl)-prop-2-inyloxy]-3-methoxy-phenyl)-ethyl)-2-ethanesulfonylamino-3-methyl-butyramide;
- 10
- 15 preferably benalaxyl, benodanil, boscalid, carboxin, mepronil, fenfuram, fenhexamid, futolanil, furametpyr, metalaxyl, ofurace, oxadixyl, oxycarboxin, penthiopyrad, thifluzamid, tiadinil, (picobenzamid), diclocymet
- 20 B3) azoles selected from bitertanole, bromuconazole, cyproconazole, difenconazole, diniconazole, enilconazole, epoxiconazole, fenbuconazole, flusilazole, fluquinconazole, flutriafol, hexaconazole, imibenconazole, ipconazole, metconazole, myclobutanil, penconazole, propiconazole, prothioconazole, simeconazole, tebuconazole, tetraconazole, triadimenol, triadimefon, triticonazole, cyazofamid, imazalil, pefurazoate, prochloraz, triflumizol, benomyl, carbendazim, fuberidazole, thiabendazole, ethaboxam, etridiazole and hymexazole; paclobutrazol, uniconazole-P;
- 25
- 30 preferably cyproconazole, epoxiconazole, fenbuconazole, fluquinconazole, flutriafol, hexaconazole, ipconazole, metconazole, propiconazole, prothioconazole, ebuconazole, tetraconazole, triadimenol, triadimefon, triticonazole, cyazofamid, imazalil, prochloraz, triflumizol, benomyl, carbendazim, thiabendazole, ethaboxam, hymexazole
- 35 B4) nitrogen-containing heterocyclic compounds selected from fluazinam, pyrifenox, 3-[5-(4-chloro-phenyl)-2,3-dimethyl-isoxazolidin-3-yl]-pyridine, bupirimat, cyprodinil, ferimzon, fenarimol, mepanipyrim, nuarimol, pyrimethanil, triforin, fludioxonil, fencpiclonil, aldimorph, dodemorph, fenpropimorph, tridemorph, iprodion, procymidon, vinclozolin, acibenzolar-S-methyl, anilazin, captan, captafol, dazomet, diclomezine, fenoxanil, folpet, fenpropidin, famoxadone, fenamidone, octhilinon, probenazol, proquinazid, pyroquilon, quinoxifen, tricyclazol, 2-butoxy-6-iodo-3-propyl-chromen-4-one, 3-(3-bromo-6-fluoro-2-methyl-indole-1-sulfonyl)-[1,2,4]triazole-1-

sulfonic acid dimethylamide, ancymidol, flurprimidol, inabenfide, tetracyclacis;

5 preferably pyrimethanil, fludioxonil, fenpiclonil, aldimorph, dodemorph, fenpropimorph, tridemorph, iprodion, procymidon, captan, captafol, dazomet, diclomezine, fenoxanil, probenazol, proquinazid, pyroquilon, quinoxifen, tricyclazol,

10 B5) carbamates and dithiocarbamates selected from ferbam, mancozeb, metiram, metam, propineb, thiram, zineb, ziram, diethofencarb, flubenthiavali-carb, iprovalicarb, propamocarb, 3-(4-chloro-phenyl)-3-(2-isopropoxycarbonylamino-3-methyl-butyrylamino)-propionic acid methylester and N-(1-(1-(4-cyanophenyl)ethanesulfonyl)-but-2-yl) carbamic acid -(4-fluorophenyl)ester;

preferably erbam, mancozeb, metiram, metam, propineb, thiram, zineb, ziram, diethofencarb, iprovalicarb, propamocarb,

15 B6) guanidines selected from dodin, iminoctadine and guazatin; preferably guazatin

B7) antibiotics selected from kasugamycin, polyoxine, streptomycin, oxytetracyclin and validamycin A; preferably streptomycin, oxytetracyclin and validamycin A

20 B8) fentin salts; preferably fentin salts;

B9) sulfur-containing heterocyclic compounds selected from isoprothiolan and dithianon;

preferably sulfur-containing heterocyclic compounds selected from isoprothiolan and dithianon;

25 B10) organophosphorous compounds selected from edifenphos, fosetyl, fosetyl-aluminium, iprobenfos, pyrazophos, tolclofos-methyl, phosphoric acid and the salts thereof;

preferably edifenphos, fosetyl, iprobenfos, pyrazopho, phosphoric acid and the salts thereof;

30 B11) organo-chloro compounds selected from thiophanate methyl, chlorothalonil, dichlofluanid, tolylfluanid, flusulfamid, phthalide, hexachlorbenzene, pencycuron, quintozen;

preferably thiophanate methyl, chlorothalonil, dichlofluanid, flusulfamid, phthalide, quintozen;

- B12) nitrophenyl derivatives selected from binapacryl, dinocap and dinobuton;
preferably binapacryl, dinocap and dinobuton
- B13) inorganic active ingredients selected from Bordeaux composition, copper acetate, copper hydroxide, copper oxychloride, basic copper sulfate and sulfur;
5 preferably copper acetate, copper hydroxide, copper oxychloride, basic copper sulfate and sulfur;
- B14) spiroxamine;
- B15) cyflufenamide;
- 10 B16) cymoxanil;
- B17) metrafenone;
- B18) organo(thio)phosphates selected from acephate, azamethiphos, azinphos-methyl, chlorpyrifos, chlorpyrifos-methyl, chlorfenvinphos, diazinon, dichlorvos, dicrotophos, dimethoate, disulfoton, ethion, fenitrothion, fen-
15 thion, isoxathion, malathion, methamidophos, methidathion, methyl-parathion, mevinphos, monocrotophos, oxydemeton-methyl, paraoxon, parathion, phenthoate, phosalone, phosmet, phosphamidon, phorate, phoxim, pirimiphos-methyl, profenofos, prothiofos, sulprophos, tetra-chlorvinphos, terbufos, triazophos and trichlorfon;
- 20 preferably metrafenone, chlorpyrifos, chlorpyrifos-methyl, chlorfenvinphos, diazinon, dichlorvos, dimethoate, disulfoton, ethion, methidathion, methyl-parathion, paraoxon, parathion, phenthoate, phosalone, phosmet, phosphamidon, phorate, phoxim, profenofos, prothiofos, sulprophos, tetra-chlorvinphos, terbufos, triazophos and trichlorfon;
- 25 B19) carbamates selected from alanycarb, aldicarb, bendiocarb, benfuracarb, carbaryl, carbofuran, carbosulfan, fenoxycarb, furathiocarb, methiocarb, methomyl, oxamyl, pirimicarb, propoxur, thiodicar and triazamate;
- 30 preferably aldicarb, bendiocarb, benfuracarb, carbaryl, carbofuran, carbosulfan, fenoxycarb, furathiocarb, methiocarb, methomyl, pirimicarb, propoxur, thiodicar and triazamate;
- B20) pyrethroids selected from allethrin, bifenthrin, cyfluthrin, cyhalothrin, cyphenothrin, cypermethrin, alpha-cypermethrin, beta-cypermethrin, zeta-cypermethrin, deltamethrin, esfenvalerate, etofenprox, fenpropathrin, fenvalerate, imiprothrin, lambda-cyhalothrin, permethrin, prallethrin, pyrethrin I

and II, resmethrin, silafluofen, tau-fluvalinate, tefluthrin, tetramethrin, tralomethrin, transfluthrin and profluthrin, dimefluthrin;

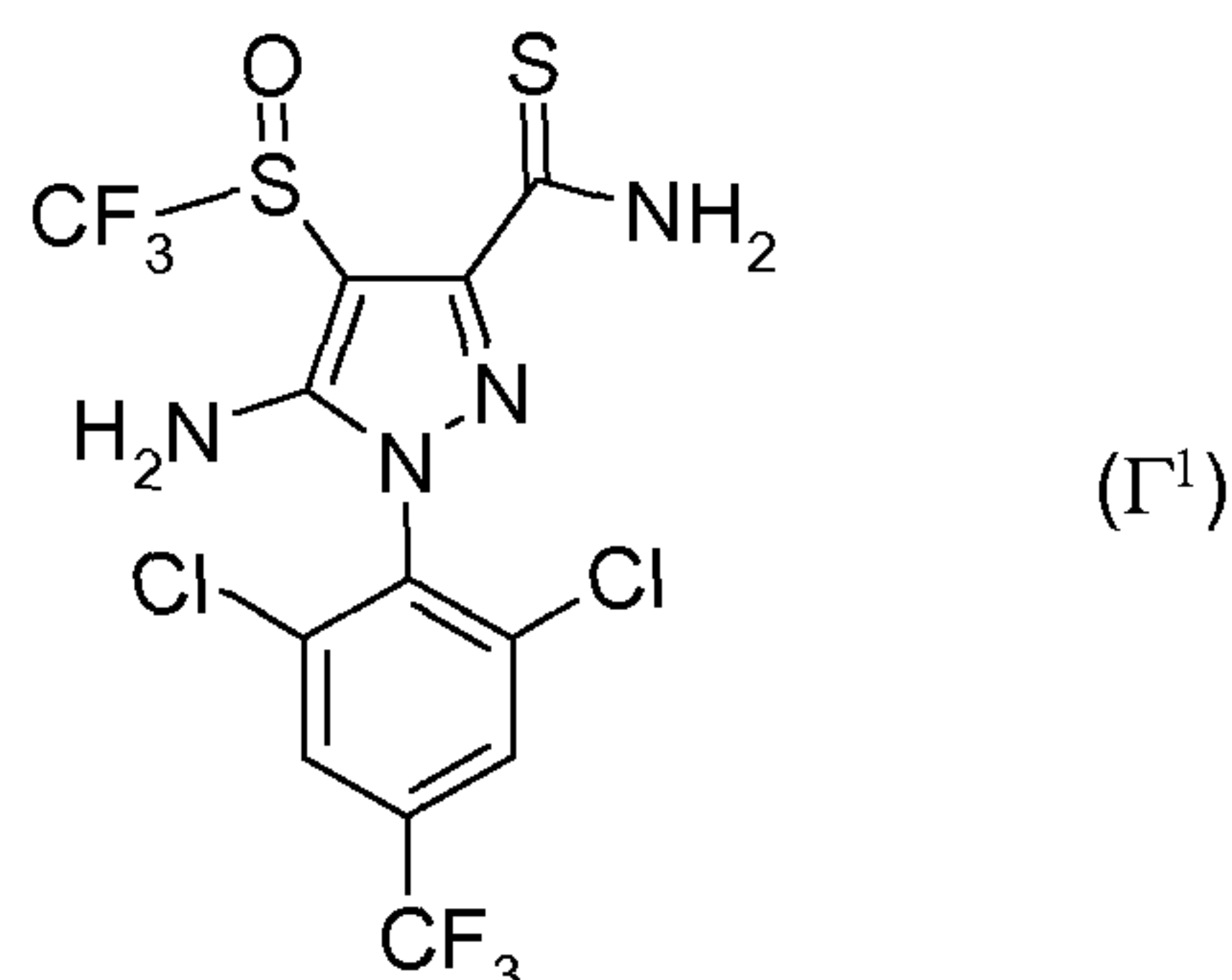
preferably bifenthrin, cyfluthrin, cyphenothrin, cypermethrin, alpha-cypermethrin, beta-cypermethrin, zeta-cypermethrin, deltamethrin, etofenprox, fenpropathrin, fenvalerate, imiprothrin, lambda-cyhalothrin, permethrin, prallethrin, pyrethrin I and II, resmethrin, tefluthrin, tetramethrin, tralomethrin, transfluthrin and profluthrin, dimefluthrin;

B21) growth regulators selected from a) chitin synthesis inhibitors that are selected from the benzoylureas chlorfluazuron, diflubenzuron, flucycloxuron, flufenoxuron, hexaflumuron, lufenuron, novaluron, teflubenzuron, triflumuron; buprofezin, diofenolan, hexythiazox, etoxazole and clofentazine; b) ecdysone antagonists that are selected from halofenozide, methoxyfenozide, tebufenozide and azadirachtin; c) juvenoids that are selected from pyriproxyfen, methoprene and fenoxycarb and d) lipid biosynthesis inhibitors that are selected from spiroticlofen, spiromesifen and spirotetramat;

preferably flufenoxuron, hexaflumuron, teflubenzuron, triflumuron; azadirachtin, methoprene and fenoxycarb, spiroticlofen, spiromesifen and spirotetramat;

B22) nicotinic receptor agonists/antagonists compounds selected from clothianidin, dinotefuran, imidacloprid, thiamethoxam, nitenpyram, acetamiprid, thiacloprid, AKD1022, bensultap, cartap hydrochloride;

preferably clothianidin, dinotefuran, imidacloprid, thiamethoxam, nitenpyram, acetamiprid, thiacloprid, AKD1022B23) GABA antagonist compounds selected from acetoprole, endosulfan, ethiprole, fipronil, vaniliprole, pyrafluprole, pyriprole and the phenylpyrazole compound of formula ¹



preferably acetoprole, endosulfan, ethiprole, fipronil, vaniliprole, pyrafluprole, pyriprole and the phenylpyrazole

B24) METI I compounds selected from fenazaquin, pyridaben, tebufenpyrad, tolfenpyrad and flufenerim;

preferably fenazaquin, pyridaben, tebufenpyrad, tolfenpyrad and flufenerim;

5 B25) METI II and III compounds selected from acequinocyl, fluacyprim and hydramethylnon;

preferably acequinocyl, fluacyprim and hydramethylnon;

B26) chlorfenapyr;;

10 B27) oxidative phosphorylation inhibitor compounds selected from cyhexatin, diafenthiuron, fenbutatin oxide and propargite;

preferably diafenthiuron, fenbutatin oxid

B28) cyromazine;

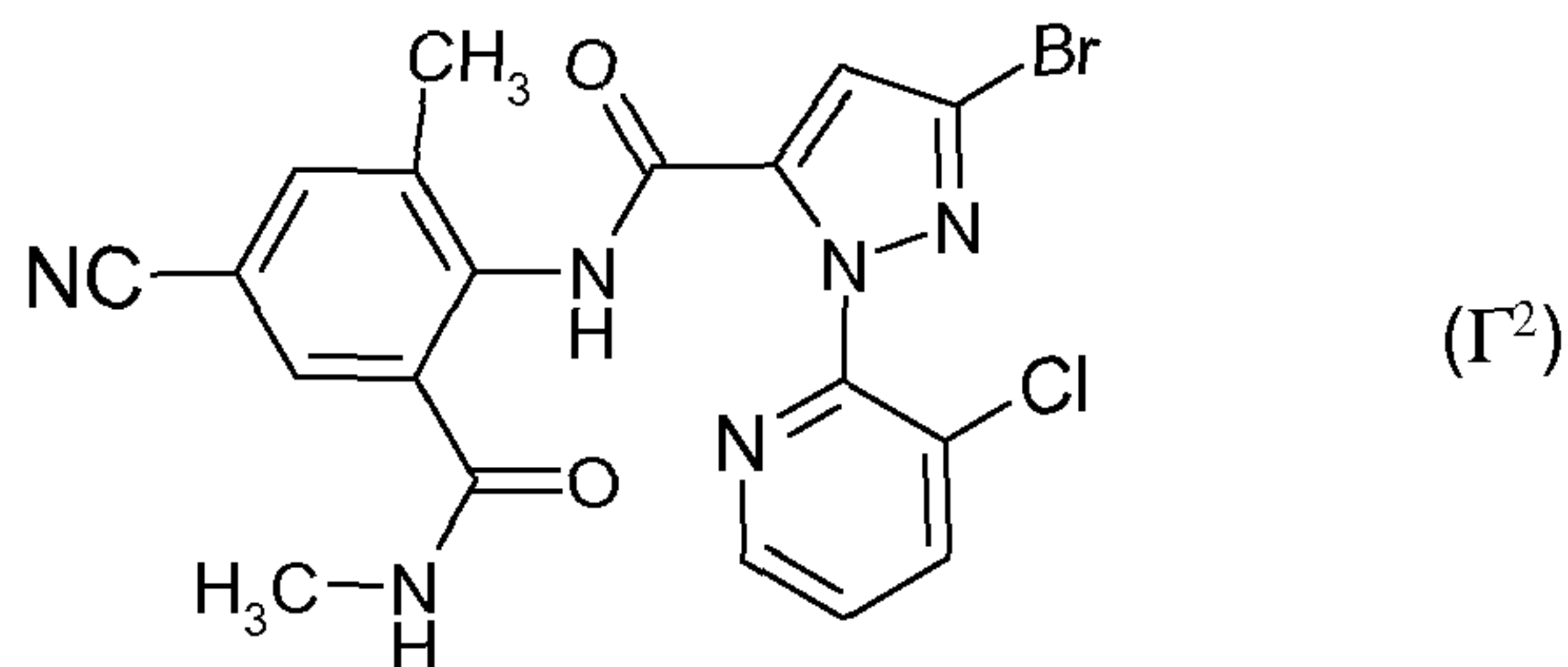
B29) piperonyl butoxide

B30) indoxacarb

15 B31) a compound selected from benclothiaz, bifenazate, cartap, flonicamid, pyridalyl, pymetrozine, sulfur, thiocyclam, flubendiamide, cyenopyrafen, flupyrazofos, cyflumetofen, amidoflumet, pyrifluquinazon;

20 preferably benclothiaz, bifenazate, cartap, flonicamid, pyridalyl, pymetrozine, sulfur, thiocyclam, flubendiamide, cyenopyrafen, flupyrazofos, cyflumetofen, amidoflumet

B.32) Anthranilamides: chloranthraniliprole, the compound of formula ²



B33) Acibenzolar-S-methyl;

B34) Plant bioregulators: trinexapac-ethyl, prohexadione-calcium, chlormequat chloride, mepiquat chloride, 16,17-dihydro gibberellin A₅, 1-methylcyclopropene, 2,5-norbornadiene, 3-amino-1,2,4-triazole;

5 preferably trinexapac-ethyl, prohexadione-calcium, chlormequat chloride, mepiquat chloride, 1-methylcyclopropene,

B35) neonicotinoid.

10 In a further embodiment of the invention the active ingredient (B) is an active compound that inhibits the mitochondrial respiration (breathing) chain at the level of the b/c₁ complex.

15 In a further embodiment of the invention the active ingredient (B) is a strobilurin selected from pyraclostrobin, kresoxim-methyl, dimoxystrobin, 2-(ortho-((2,5-Dimethylphenyl-oxymethylene)phenyl)-3-methoxy-acrylic acid methyl ester, picoxystrobin, trifloxystrobin, enestroburin, orysastrobin, metominostrobin, azoxystrobin and fluoxastrobin.

20 In a further embodiment of the invention the active ingredient (B) is selected from (EZ)-3-(2-chloro-1,3-thiazol-5-ylmethyl)-5-methyl-1,3,5-oxadiazinan-4-ylidene(nitro)amine (thiamethoxam), 5-amino-1-(2,6-dichloro- α,α,α -trifluoro-*p*-tolyl)-4-trifluoromethylsulfinylpyrazole-3-carbonitrile (fipronil) and (EZ)-1-(6-chloro-3-pyridylmethyl)-*N*-nitroimidazolidin-2-ylideneamine (imidacloprid).

In a further embodiment of the invention the active ingredient (B) is a plant bioregulator.

In one embodiment of the invention the plant bioregulator is selected from the group consisting of:

25 i) Plant bioregulators of the acylcyclohexanedione-type known to induce defence mechanisms against bacterial and fungal pathogens and against insect pests are: prohexadione and trinexapac, as free acids, esters (C1-C3) or salts (in particular: trinexapac-ethyl and prohexadione-calcium).

30 ii) Plant bioregulators known to reduce shoot length and leaf surface and to increase root growth, thereby diminishing the vulnerability of plants to abiotic stress (e.g. lodging as a result of wind and severe rainfall; dehydration as a result of water shortage and high evaporative demand; cell, tissue or whole-plant death as a result of too high or too low temperatures; root anoxia as a result of intense rainfall or flooding) are: (i) Quaternary ammonium compounds, in particular chlormequat and mepiquat as chlorides, borates, sulfates, phosphates or
35

5 other agriculturally useful salts; (ii) compounds with a nitrogen-containing heterocycle, in particular paclobutrazol, uniconazole-P, metconazole, tebuconazole, ancymidol, flurprimidol, inabenfide, tetcyclacis; (iii) acylcyclohexanediones, in particular prohexadione and trinexapac, as free acids, esters (C1-C3) or salts (in particular: trinexapac-ethyl and prohexadione-calcium) (iiii) derivatives of 16, 17-dihydro gibberellin A₅.

iii) Plant bioregulators diminishing the responsiveness of plants to abiotic and biotic stresses (thereby avoiding yield-reducing over-reactions), in particular ethylene modulators are:

10 ethylene biosynthesis inhibitors which inhibit the conversion of S-adenosyl-L-methionine into 1-aminocyclopropane-1-carboxylic acid (ACC), such as derivatives of vinylglycine, hydroxylamines, oxime ether derivatives;

15 ethylene biosynthesis inhibitors which block the conversion of ACC into ethylene, selected from the group consisting of: Co⁺⁺ or Ni⁺⁺ ions in plant-available form; phenolic radical scavengers such as n-propyl gallate; polyamines, such as putrescine, spermine or spermidine; structural analogs of ACC, such as α-aminoisobutyric acid or L-aminocyclopropene-1-carboxylic acid; salicylic acid or acibenzolar-S-methyl; structural analogs of ascorbic acid which act as inhibitors of ACC oxidase, such as prohexadione-Ca or trinexapac-ethyl; and triazolyl
20 compounds such as paclobutrazole or uniconazole as inhibitors of cytochrome P-450-dependent monooxygenases whose main action is to block the metabolism of gibberellins;

25 inhibitors of the action of ethylene selected from the group consisting of: structural analogs of ethylene such as 1-methylcyclopropene or 2,5-norbornadiene and 3-amino-1,2,4-triazole or Ag⁺⁺ ions in a weight ratio of I to II of from 20 : 1 to 0.05 : 1

Plant bioregulators can also be involved in endogenous defense mechanisms against biotic (e.g. jasmonic acid and methyl jasmonate) and abiotic stress (e.g. abscisic acid and also its synthetic analogs).

30 In a further embodiment of the invention the chemical composition comprises at least one active ingredient (B) and a component (A) which is a glucan or a glucan derivative.

35 Component (A) according to the present invention is a glucan or a glucan derivative. "Glucans" are a class of homopolysaccharides which contain glucose units as monomer building blocks, wherein the glucose molecule may be linked by alpha- or beta-glycosidic bonds and may be branched or straight chain. Specific examples for suitable glucans according to the present invention are beta-glucans, more specifically

beta -1,3-glucans such as, for example, laminarin and curdlan. Beta-1-3 glucans, for example, have various origins. They can be extracted from bacteria (for example *Alcaligenes faecalis* which leads to curdlan), fungi, yeasts and from various plants, particularly from algae and cereals.

5 “Glucan derivatives” according to the present invention are glucans that are modified, for example by sulfatation or by hydrolysis. Specific examples for suitable glucan derivatives are sulfated glucans, particularly sulfated beta -glucans, more specifically beta -1,3-glucans such as sulfated laminarin or sulfated curdlan. Furthermore, also laminaribiose, cellobiose, nigerose, laminaritriose, laminaritetrose and laminaripentose
10 are suitable glucan derivatives according to the present invention.

Further derivatives of glucans are described in US 6,979,665, Alban S. et al., Synthesis of laminarin sulfates with anticoagulant activity, *Arzneim. Forsch.* (1992) 42; 1005-1008; US 6,979,665; US 6,387,847; .US 6,303,587; US 6,303,587; Black et al., *Appl. Chem.* (1951), volume 1, pages 505 to 517; US 5,750,472 and references cited
15 therein), US 5,750,472, FR 92 08387; which are included by reference.

According to one preferred embodiment of the present invention, component (A) is a beta -glucan, in particular a beta -1,3-glucan. Specifically, component (A) is laminarin or curdlan.

According to another preferred embodiment, component (A) is selected from sulfated
20 glucan, Laminaribiose, Cellobiose, Nigerose, Laminaritriose, Laminaritetrose and Laminaripentose.

The active compounds of groups B1) to B17) that can be used as the active ingredient (B), their preparation and their action against harmful fungi are generally known; they are commercially available. In most of the cases, they can also be found in The
25 Pesticide Manual, 13th Edition, British Crop Protection Council (2003) among other publications.

- benalaxyl, methyl *N*-(phenylacetyl)-*N*-(2,6-xylyl)-DL-alaninate (DE 29 03 612),
- boscalid, 2-chloro-*N*-(4'-chlorobiphenyl-2-yl)nicotinamide (EP-A 545 099);
- carboxin, 5,6-dihydro-2-methyl-*N*-phenyl-1,4-oxathiin-3-carboxamide (US 3 249 499),
- 30 - mepronil, 3'-isopropoxy-*o*-toluanilide (US 3 937 840),
- fenhexamid, *N*-(2,3-dichloro-4-hydroxyphenyl)-1-methylcyclohexanecarboxamide (Proc. Br. Crop Prot. Conf. – Pests Dis., 1998, Vol. 2, p. 327);
- flutolanil, α,α,α -trifluoro-3'-isopropoxy-*o*-toluanilide (JP 1104514),
- furametpyr, 5-chloro-*N*-(1,3-dihydro-1,1,3-trimethyl-4-isobenzofuranyl)-1,3-dimethyl-
35 1*H*-pyrazole-4-carboxamide [CAS RN 123572-88-3],
- metalaxyl, methyl *N*-(methoxyacetyl)-*N*-(2,6-xylyl)-DL-alaninate (GB 15 00 581);
- ofurace, (*RS*)- α -(2-chloro-*N*-2,6-xylylacetamido)- γ -butyrolactone [CAS RN 58810-48-3];

- oxadixyl; *N*-(2,6-dimethylphenyl)-2-methoxy-*N*-(2-oxo-3-oxazolidinyl)acetamide (GB 20 58 059),
- oxycarboxin, 5,6-dihydro-2-methyl-1,4-oxathiin-3-carboxanilide 4,4-dioxide (US 3 399 214),
- 5 - penthiopyrad, *N*-[2-(1,3-dimethylbutyl)-3-thienyl]-1-methyl-3-(trifluoromethyl)-1*H*-pyrazole-4-carboxamide (JP 10130268),
- thifluzamide, *N*-[2,6-dibromo-4-(trifluoromethoxy)phenyl]-2-methyl-4-(trifluoromethyl)-5-thiazolecarboxamide;
- tiadinil, 3'-chloro-4,4'-dimethyl-1,2,3-thiadiazole-5-carboxanilide [CAS RN 223580-
- 10 51-6],
- dimethomorph, 3-(4-chlorophenyl)-3-(3,4-dimethoxyphenyl)-1-morpholin-4-ylpropenone (EP-A 120 321);
- flumorph, 3-(4-fluorophenyl)-3-(3,4-dimethoxyphenyl)-1-morpholin-4-ylpropenone (EP-A 860 438);
- 15 - flumetover, 2-(3,4-dimethoxyphenyl)-*N*-ethyl- α,α,α -trifluoro-*N*-methyl-*p*-toluamide [AGROW No. 243, 22 (1995)],
- fluopicolide (picobenzamid), 2,6-dichloro-*N*-(3-chloro-5-trifluoromethylpyridin-2-ylmethyl)benzamide (WO 99/42447);
- zoxamide, (*RS*)-3,5-dichloro-*N*-(3-chloro-1-ethyl-1-methyl-2-oxopropyl)-*p*-toluamide
- 20 [CAS RN 156052-68-5];
- carpropamid, 2,2-dichloro-*N*-[1-(4-chlorophenyl)ethyl]-1-ethyl-3-methylcyclopropane-carboxamide [CAS RN 104030-54-8],
- diclocymet, 2-cyano-*N*-[(1*R*)-1-(2,4-dichlorophenyl)ethyl]-3,3-dimethyl butanamide;
- mandipropamid, (*RS*)-2-(4-chlorophenyl)-*N*-[3-methoxy-4-(prop-2-ynyloxy)phenethyl]-
- 25 2-(prop-2-ynyloxy)acetamide [CAS RN 374726-62-2];
- bitertanole, prop-2'-[biphenyl]-4-yloxy)-2-ynyloxy)phenethyl]-2-*H*-1,2,4-triazole-1-ethanol (DE 23 24 020),
- bromuconazole, 1-[[4-bromo-2-(2,4-dichlorophenyl)tetrahydro-2-furanyl]methyl]-1*H*-1,2,4-triazole (Proc. 1990 Br. Crop. Prot. Conf. – Pests Dis. Vol. 1, p. 459);
- 30 - cyproconazole, 2-(4-chlorophenyl)-3-cyclopropyl-1-[1,2,4]triazol-1-ylbutan-2-ol (US 4 664 696);
- difenoconazole, 1-{2-[2-chloro-4-(4-chlorophenoxy)phenyl]-4-methyl-[1,3]dioxolan-2-ylmethyl}-1*H*-[1,2,4]triazole (GB-A 2 098 607);
- diniconazole, (βE)- β -[(2,4-dichlorophenyl)methylene]- α -(1,1-dimethylethyl)-1*H*-1,2,4-
- 35 triazole-1-ethanol (Noyaku Kagaku, 1983, Vol. 8, p. 575);
- enilconazole (imazalil), 1-[2-(2,4-dichlorophenyl)-2-(2-propenyloxy)ethyl]-1*H*-imidazole (Fruits, 1973, Vol. 28, p. 545);
- epoxiconazole, (2*RS*,3*SR*)-1-[3-(2-chlorophenyl)-2,3-epoxy-2-(4-fluorophenyl)propyl]-1*H*-1,2,4-triazole (EP-A 196 038);
- 40 - fenbuconazole, α -[2-(4-chlorophenyl)ethyl]- α -phenyl-1*H*-1,2,4-triazole-1-propanenitrile (Proc. 1988 Br. Crop Prot. Conf. – Pests Dis. Vol. 1, p. 33);

- flusilazole, 1-[[bis-(4-fluorophenyl)methylsilanyl]methyl]-1H-[1,2,4]triazole (Proc. Br. Crop Prot. Conf.-Pests Dis., 1, 413 (1984));
- fluquinconazole, 3-(2,4-dichlorophenyl)-6-fluoro-2-[1,2,4]-triazol-1-yl-3H-quinazolin-4-one (Proc. Br. Crop Prot. Conf.-Pests Dis., 5-3, 411 (1992));
- 5 - flutriafol, α -(2-fluorophenyl)- α -(4-fluorophenyl)-1H-1,2,4-triazole-1-ethanol (EP 15 756);
- hexaconazole, 2-(2,4-dichlorophenyl)-1-[1,2,4]triazol-1-ylhexan-2-ol (CAS RN 79983-71-4);
- imibenconazole, (4-chlorophenyl)methyl N-(2,4-dichlorophenyl)-1H-1,2,4-triazole-1-
- 10 ethanimidothioate ((Proc. 1988 Br. Crop Prot. Conf. – Pests Dis. Vol. 2, p. 519),
- ipconazole, 2-[(4-chlorophenyl)methyl]-5-(1-methylethyl)-1-(1H-1,2,4-triazol-1-yl-methyl)cyclopentanol (EP 267 778),
- metconazole, 5-(4-chlorobenzyl)-2,2-dimethyl-1-[1,2,4]triazol-1-ylmethylcyclopentanol (GB 857 383);
- 15 - myclobutanil, 2-(4-chlorophenyl)-2-[1,2,4]triazol-1-ylmethylpentanenitrile (CAS RN 88671-89-0);
- penconazole, 1-[2-(2,4-dichlorophenyl)pentyl]-1H-[1,2,4]triazole (Pesticide Manual, 12th Ed. (2000), p.712);
- propiconazole, 1-[[2-(2,4-dichlorophenyl)-4-propyl-1,3-dioxolan-2-yl]methyl]-1H-1,2,4-
- 20 triazole (BE 835 579);
- prothioconazole, 2-[2-(1-chlorocyclopropyl)-3-(2-chlorophenyl)-2-hydroxypropyl]-2,4-dihydro-[1,2,4]triazole-3-thione (WO 96/16048);
- simeconazole, α -(4-fluorophenyl)- α -[(trimethylsilyl)methyl]-1H-1,2,4-triazole-1-ethanol [CAS RN 149508-90-7],
- 25 - tebuconazole, 1-(4-chlorophenyl)-4,4-dimethyl-3-[1,2,4]triazol-1-ylmethylpentan-3-ol (EP-A 40 345);
- tetraconazole, 1-[2-(2,4-dichlorophenyl)-3-(1,1,2,2-tetrafluoroethoxy)propyl]-1H-1,2,4-triazole (EP 234 242);
- triadimenol, β -(4-chlorophenoxy)- α -(1,1-dimethylethyl)-1H-1,2,4-triazole-1-ethanol;
- 30 - triadimefon, 1-(4-chlorophenoxy)-3,3-dimethyl-1-(1H-1,2,4-triazol-1-yl)-2-butanone;
- triticonazole, (5E)-5-[(4-chlorophenyl)methylene]-2,2-dimethyl-1-(1H-1,2,4-triazol-1-ylmethyl)cyclopentanol (FR 26 41 277);
- cyazofamid, 4-chloro-2-cyano-N,N-dimethyl-5-(4-methylphenyl)-1H-imidazole-1-sulfonamide (CAS RN 120116-88-3),
- 35 - pefurazoate, 4-pentenyl 2-[(2-furanylmethyl)(1H-imidazol-1-ylcarbonyl)amino]butanoate [CAS RN 101903-30-4],
- prochloraz, N-{propyl-[2-(2,4,6-trichlorophenoxy)ethyl]}imidazole-1-carboxamide (US 3 991 071);
- triflumizole, (4-chloro-2-trifluoromethylphenyl)-(2-propoxy-1-[1,2,4]triazol-1-ylethylidene)amine (JP-A 79/119 462)
- 40 - benomyl, N-butyl-2-acetylaminoimidazol-1-carboxamide (US 3 631 176);
- carbendazim, methyl (1H-benzimidazol-2-yl)-carbamate (US 3 657 443);

- fuberidazole, 2-(2-furanyl)-1*H*-benzimidazole (DE 12 09 799),
- thiabendazole, 2-(1,3-thiazol-4-yl)benzimidazole (US 3 017 415),
- ethaboxam, *N*-(cyano-2-thienylmethyl)-4-ethyl-2-(ethylamino)-5-thiazolcarboxamide (EP-A 639 574),
- 5 - etridiazole,
- hymexazole, 5-methyl-1,2-oxazol-3-ol (JP 518249, JP 532202),
- fluazinam, 3-chloro-*N*-[3-chloro-2,6-dinitro-4-(trifluoromethyl)phenyl]-5-(trifluoromethyl)-2-pyridinamine (The Pesticide Manual, publ. The British Crop Protection Council, 10th ed. (1995), p. 474);
- 10 - pyrifenox, 1-(2,4-dichlorophenyl)-2-(3-pyridinyl)ethanone *O*-methyloxime (EP-A 49 854);
- bupirimate, 5-butyl-2-ethylamino-6-methylpyrimidin-4-yl dimethylsulfamate [CAS RN 41483-43-6];
- cyprodinil, (4-cyclopropyl-6-methylpyrimidin-2-yl)phenylamine (EP-A 310 550);
- 15 - ferimzone, (*Z*)-2'-methylacetophenone 4,6-dimethylpyrimidin-2-ylhydrazone [CAS RN 89269-64-7];
- fenarimol, (4-chlorophenyl) (2-chlorophenyl) pyrimidin-5-ylmethanol (GB 12 18 623);
- mepanipyrim, (4-methyl-6-prop-1-ynylpyrimidin-2-yl)phenylamine (EP-A 224 339);
- nuarimol, alpha-(2-chlorophenyl)-alpha-(4-fluorophenyl)-5-pyrimidinemethanol (GB
- 20 12 18 623);
- pyrimethanil, 4,6-dimethylpyrimidin-2-ylphenylamine (DD-A 151 404);
- triforine, *N,N'*-{piperazine-1,4-diylbis[(trichloromethyl)methylene]}diformamide (DE 19 01 421);
- fludioxonil, 4-(2,2-difluorobenzo[1,3]dioxol-4-yl)-1*H*-pyrrole-3-carbonitrile (The Pesticide Manual, publ. The British Crop Protection Council, 10th ed. (1995), p. 482);
- 25 - fenciclonil, 4-(2,3-dichlorophenyl)-1*H*-pyrrole-3-carbonitrile (Proc. 1988 Br. Crop Prot. Conf. – Pests Dis., Vol. 1, p. 65);
- aldimorph, 4-alkyl-2,5(or 2,6)-dimethylmorpholine, comprising 65-75% of 2,6-dimethylmorpholine and 25-35% of 2,5-dimethylmorpholine, comprising more than
- 30 85% of 4-dodecyl-2,5(or 2,6)-dimethylmorpholine, where "alkyl" may also include octyl, decyl, tetradecyl or hexadecyl and where the *cis/trans* ratio is 1:1;
- dodemorph, 4-cyclododecyl-2,6-dimethylmorpholine (DE 1198125);
- fenpropimorph, (*RS*)-*cis*-4-[3-(4-*tert*-butylphenyl)-2-methylpropyl]-2,6-dimethylmorpholine (DE 27 52 096);
- 35 - tridemorph, 2,6-dimethyl-4-tridecylmorpholine (DE 11 64 152);
- iprodione, *N*-isopropyl-3-(3,5-dichlorophenyl)-2,4-dioxoimidazolidine-1-carboxamide (GB 13 12 536);
- procymidone, *N*-(3,5-dichlorophenyl)-1,2-dimethylcyclopropane-1,2-dicarboximide (US 3 903 090);
- 40 - vinclozolin, 3-(3,5-dichlorophenyl)-5-methyl-5-vinyloxazolidine-2,4-dione (DE-OS 22 07 576);
- acibenzolar-*S*-methyl, methyl benzo[1,2,3]thiadiazole-7-carbothionate;

- anilazine, 4,6-dichloro-*N*-(2-chlorophenyl)-1,3,5-triazine-2-amine (US 2 720 480);
- captan, 2-trichloromethylsulfanyl-3a,4,7,7a-tetrahydroisindole-1,3-dione (US 2 553 770);
- captafol, *N*-(1,1,2,2-tetrachloroethylthio)cyclohex-4-ene-1,2-dicarboximide (Phytopathology 52, S. 754 (1962));
- 5 - dazomet, 3,5-dimethyl-1,3,5-thiadiazinane-2-thione (Bull. Soc. Chim. Fr. Vol. 15, p. 891 (1897));
- diclomezine, 6-(3,5-dichlorophenyl)-*p*-tolylpyridazin-3(2*H*)-one (US 4,052,395);
- fenoxanil, *N*-(1-cyano-1,2-dimethylpropyl)-2-(2,4-dichlorophenoxy) propanamide (EP-A 262 393);
- 10 - folpet, 2-trichloromethylsulfanylisoindole-1,3-dione (US 2 553 770);
- fenpropidin, (*RS*)-1-[3-(4-*tert*-butylphenyl)-2-methylpropyl]piperidine (DE 27 52 096);
- famoxadone, (*RS*)-3-anilino-5-methyl-5-(4-phenoxyphenyl)-1,3-oxazolidine-2,4-dione [CAS RN 131807-57-3];
- 15 - fenamidone, (*S*)-1-anilino-4-methyl-2-methylthio-4-phenylimidazolin-5-one [CAS RN 161326-34-7];
- othilinone,
- probenazole, 3-allyloxy-1,2-benzothiazole 1,1-dioxide;
- proquinazid, 6-iodo-2-propoxy-3-propylquinazolin-4(3*H*)-one (WO 97/48684);
- 20 - pyroquilon, 1,2,5,6-tetrahydropyrrolo[3,2,1-*ij*]quinolin-4-on (GB 139 43 373)
- quinoxifen, 5,7-dichloro-4-(4-fluorophenoxy)quinoline (US 5 240 940);
- tricyclazole, 5-methyl-1,2,4-triazolo[3,4-*b*]benzothiazole (GB 14 19 121);
- ferbam, iron(3+) dimethyldithiocarbamate (US 1 972 961);
- mancozeb, manganese ethylenebis(dithiocarbamate) zinc complex (US 3 379 610);
- 25 - maneb, manganese ethylenebis(dithiocarbamate) (US 2 504 404);
- metiram, zinc ammoniate ethylenebis(dithiocarbamate) (US 3 248 400);
- metam, methyldithiocarbaminic acid (US 2 791 605);
- propineb, zinc propylenebis(dithiocarbamate) polymer (BE 611 960);
- thiram, bis(dimethylthiocarbamoyl) disulfide (DE 642 532);
- 30 - zineb, zinc ethylenebis(dithiocarbamate) (US 2 457 674);
- ziram, dimethyldithiocarbamate [CAS RN 137-30-4];
- diethofencarb, isopropyl 3,4-diethoxycarbanilate (EP-A 78 663);
- flubenthiavalicarb (benthiavalicarb), isopropyl {(*S*)-1-[(1*R*)-1-(6-fluorobenzothiazol-2-yl)ethylcarbamoyl]-2-methylpropyl}carbamate (JP-A 09/323 984);
- 35 - iprovalicarb, isopropyl [(1*S*)-2-methyl-1-(1-*p*-tolylethylcarbamoyl)propyl]carbamate (EP-A 472 996);
- propamocarb, propyl 3-(dimethylamino)propylcarbamate (DE 16 43 040);
- dodine, (2,4-dichlorophenoxy)acetic acid (US 2 867 562);
- iminoctadine, bis(8-guanidinoctyl)amine (GB 11 14 155);
- 40 - guazatine, mixture of products from the amidation of iminodi(octamethylene)diamine, mainly iminoctadine [CAS RN 108173-90-6];
- kasugamycin, 1L-1,3,4/2,5,6-1-deoxy-2,3,4,5,6-pentahydroxycyclohexyl 2-amino-

- 2,3,4,6-tetradeoxy-4-(alpha-iminoglycino)-alpha-D-arabino-hexopyranoside [CAS RN 6980-18-3];
- polyoxine, 5-(2-amino-5-O-carbamoyl-2-deoxy-L-xylonamido)-1-(5-carboxy-1,2,3,4-tetrahydro-2,4-dioxypyrimidin-1-yl)-1,5-dideoxy-beta-D-allofuranuronic acid and the salts thereof [CAS RN 22976-86-9];
- 5 - streptomycin, O-2-deoxy-2-methylamino-alpha-L-glucopyranosyl-(1→2)-O-5-deoxy-3-C-formyl-alpha-L-lyxofuranosyl-(1→4)*N*¹,*N*³-diamidino-D-streptamine (J. Am. Chem. Soc. 69, S.1234 (1947));
- validamycin A,- fentin acetate, triphenyltin acetate (US 3 499 086);
- 10 - isoprothiolan, diisopropyl 1,3-dithiolan-2-ylidenemalonat (Proc. Insectic. Fungic. Conf. 8. Bd. 2, S. 715 (1975));
- dithianon, 5,10-Dioxo-5,10-dihydronaphtho[2,3-b][1,4]dithiin-2,3-dicarbonitril (GB 857 383);
- edifenphos, O-ethyl S,S-diphenyl phosphorodithioate (DE-A 14 93 736);
- 15 - fosetyl, fosetyl-aluminum, (aluminum) ethylphosphonate (FR 22 54 276);
- iprobenfos, S-benzyl O,O-diisopropyl phosphorothioate (Jpn. Pesticide Inf., No. 2, S. 11 (1970));
- pyrazophos, ethyl 2-diethoxyphosphinothioxyloxy-5-methylpyrazolo[1,5-a]pyrimidine-6-carboxylate (DE 15 45 790);
- 20 - tolclofos-methyl, O-2,6-dichloro-*p*-tolyl O,O-dimethyl phosphorothioate (GB 14 67 561);
- thiophanate-methyl, 1,2-phenylenebis(iminocarbonothioyl)bis(dimethylcarbamate) (DE-OS 19 30 540);
- chlorothalonil, 2,4,5,6-tetrachloroisophthalonitrile (US 3 290 353);
- 25 - dichlofluanid, N-dichlorofluoromethylthio-*N'*,*N'*-dimethyl-*N*-phenylsulfamide (DE 11 93 498);
- tolylfluanid, N-dichlorofluoromethylthio-*N'*,*N'*-dimethyl-*N-p*-tolylsulfamide (DE 11 93 498);
- flusulfamide, 2',4-dichloro- α,α,α -trifluoro-4'-nitro-*m*-toluenesulfanilide (EP-A 199
- 30 433);
- phthalide (DE 16 43 347);
- hexachlorobenzene (C. R. Seances Acad. Agric. Fr., Vol. 31, p. 24 (1945));
- pencycuron, 1-(4-chlorobenzyl)-1-cyclopentyl-3-phenylurea (DE 27 32 257);
- quintozene, pentachloronitrobenzene (DE 682 048);
- 35 - binapacryl, (*RS*)-2-*sec*-Butyl-4,6-dinitrophenyl 3-methylcrotonat [CAS RN 485-31-4];
- dinocap, mixture of 2,6-dinitro-4-octylphenylcrotonate and 2,4-dinitro-6-octylphenylcrotonate, wherein "octyl" is a mixture of 1-methylheptyl, 1-ethylhexyl and 1-propylpentyl (US 2,526,660);
- dinobuton, (*RS*)-2-*sec*-Butyl-4,6-dinitrophenyl isopropyl carbonat [CAS RN 973-21-
- 40 7];
- Bordeaux composition, mixture of CuSO₄ x 3Cu(OH)₂ x 3CaSO₄ [CAS RN 8011-63-0]

- copper acetate, $\text{Cu}(\text{OCOCH}_3)_2$ [CAS RN 8011-63-0];
 - copper oxychloride, $\text{Cu}_2\text{Cl}(\text{OH})_3$ [CAS RN 1332-40-7];
 - basic copper sulfate, CuSO_4 [CAS RN 1344-73-6];
 - spiroxamine, (8-tert-butyl-1,4-dioxaspiro[4.5]dec-2-yl)diethylamine (EP-A 281 842).
- 5 - cyflufenamid, (Z)-N-[α -(cyclopropylmethoxyimino)-2,3-difluoro-6-(trifluoromethyl)benzyl]-2-phenylacetamide (WO 96/19442);
- cymoxanil, 1-(2-cyano-2-methoxyiminoacetyl)-3-ethylurea (US 3 957 847);
 - metrafenone, 3'-bromo-2,3,4,6'-tetramethoxy-2',6-dimethylbenzophenone (US 5 945 567);
- 10 The compounds are named according to IUPAC, their preparation and their fungicidal actions are likewise known:
- N-(4'-bromobiphenyl-2-yl)-4-difluoromethyl-2-methylthiazole-5-carboxamide, N-(4'-trifluoromethylbiphenyl-2-yl)-4-difluoromethyl-2-methylthiazole-5-carboxamide, N-(4'-chloro-3'-fluorobiphenyl-2-yl)-4-difluoromethyl-2-methylthiazole-5-carboxamide, N-
- 15 (3',4'-dichloro-4-fluorobiphenyl-2-yl)-3-difluoromethyl-1-methylpyrazole-4-carboxamide (WO 03/066609),
- 3,4-dichloro-isothiazol-5-carboxylic acid (2-cyanophenyl) amide (WO 99/24413);
- N-(2-(4-[3-(4-Chlor-phenyl)-prop-2-ynyloxy]-3-methoxy-phenyl)-ethyl)-2-methanesulfonylamino-3-methyl-butylamid, N-(2-(4-[3-(4-Chlor-phenyl)-prop-2-ynyloxy]-3-
- 20 methoxy-phenyl)-ethyl)-2-ethanesulfonylamino-3-methyl-butylamid (WO 04/49804);
- 3-[5-(4-chlorophenyl)-2,3-dimethylisoxazolidin-3-yl]pyridine (EP-A 10 35 122);
- 2-butoxy-6-iodo-3-propylchromen-4-one (WO 03/14103),
- methyl 3-(4-chlorophenyl)-3-(2-isopropoxycarbonylamino-3-methylbutylamino)-propanoate (EP-A 1028125)
- 25 Furthermore, the commercially available compounds of groups B18) to B32) of the active ingredient (B) may be found in The Pesticide Manual, 13th Edition, British Crop Protection Council (2003) among other publications.
- Thiamides of formula Γ (gamma)¹ and their preparation have been described in WO199828279.
- 30 Lepimection is known from Agro Project, PJB Publications Ltd, November 2004. Benclonthiaz and its preparation have been described in EP-A1 454621. Methidathion and Paraoxon and their preparation have been described in Farm Chemicals Handbook, Volume 88, Meister Publishing Company, 2001. Acetoprole and its preparation have been described in WO199828277. Flupyrazofos has been described in Pesticide Sci-
- 35 ence 54, 1988, p. 237-243 and in US 4822779. Pyrafluprole and its preparation have

been described in JP 2002193709 and in WO200100614. Pyriprole and its preparation have been described in WO199845274 and in US 6335357. Amidoflumet and its preparation have been described in US 6221890 and in JP 21010907. Flufenerim and its preparation have been described in WO2003007717 and in WO2003007718. Cyflumetofen and its preparation have been described in WO2004080180. Anthranilamides of formula Γ (gamma)⁵ and their preparation have been described in WO200170671; WO200248137; WO200324222, WO200315518, WO200467528; WO200433468; and WO2005118552.

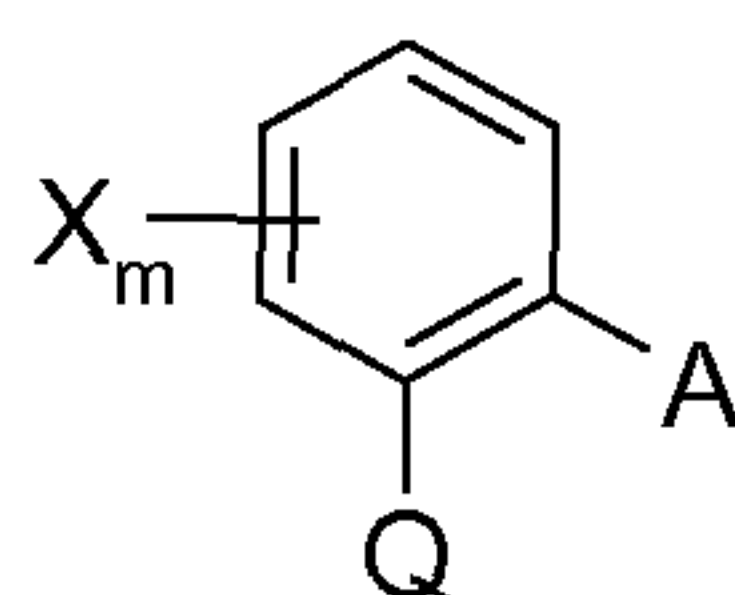
According to one embodiment of the invention, the active ingredient (B) is an active compound that inhibits the mitochondrial breathing chain at the level of the b/c₁ complex.

Active compounds that inhibit the mitochondrial breathing chain at the level of the b/c₁ complex are known as fungicides from the literature [see for example Dechema-Monographien Bd. 129, 27-38, VCH Verlagsgemeinschaft Weinheim 1993; Natural Product Reports 1993, 565-574; Biochem. Soc. Trans. 22, 63S (1993)].

A particularly important class of active compounds that inhibit the mitochondrial breathing chain at the level of the b/c₁ complex are strobilurins. Strobilurins are generally known as fungicides since a long time and have, in some cases, also been described as insecticides (EP-A 178 826; EP-A 253 213; WO 93/15046; WO 95/18789; WO 95/21153; WO 95/21154; WO 95/24396; WO 96/01256; WO 97/15552; WO 97/27189). A further example of an active compound that inhibits the mitochondrial breathing chain at the level of the b/c₁ complex is famoxadone (5-methyl-5-(4-phenoxyphenyl)-3-(phenylamino)-2,4-oxazolidinedione).

In a further preferred embodiment of the present invention, strobilurins are used as the active ingredient (B). According to the present invention, strobilurins which have proven particularly suitable are selected from

1) compounds of formula I



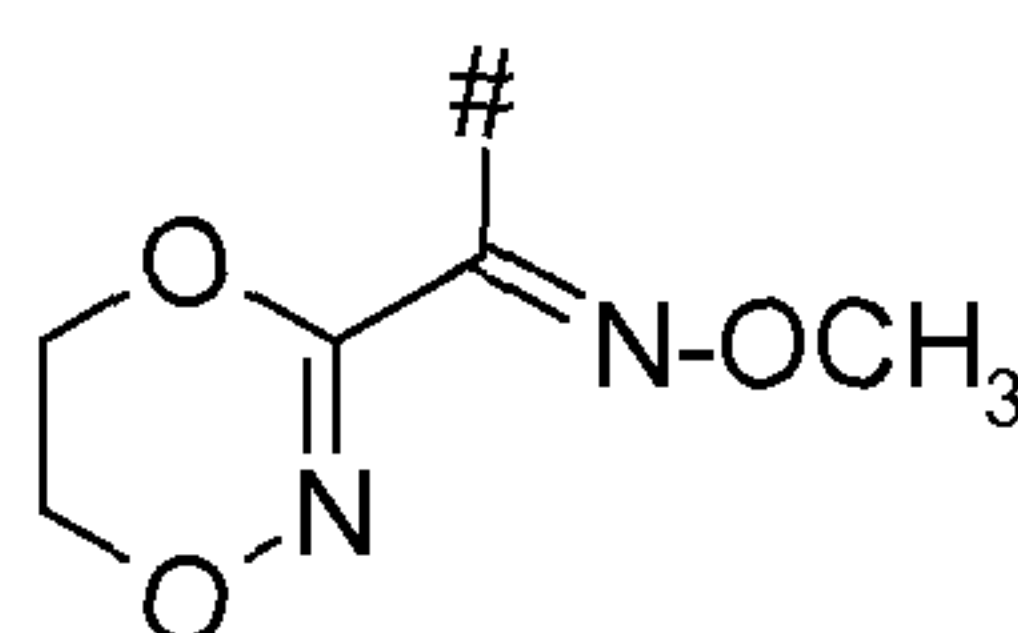
in which

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X is halogen, C₁-C₄-alkyl or trifluoromethyl;

m is 0 or 1;

Q is C(=CH-CH₃)-COOCH₃, C(=CH-OCH₃)-COOCH₃, C(=N-OCH₃)-CONHCH₃, C(=N-OCH₃)-COOCH₃, N(-OCH₃)-COOCH₃, or a group Q1



Q1

5 wherein # denotes the bond to the phenyl ring;

A is -O-B, -CH₂O-B, -OCH₂-B, -CH₂S-B, -CH=CH-B, -C≡C-B, -CH₂O-N=C(R¹)-B, -CH₂S-N=C(R¹)-B, -CH₂O-N=C(R¹)-CH=CH-B, or -CH₂O-N=C(R¹)-C(R²)=N-OR³, where

10 B is phenyl, naphthyl, 5-membered or 6-membered heteroaryl or 5-membered or 6-membered heterocyclyl, containing one, two or three N atoms and/or one O or S atom or one or two O and/or S atoms, the ring systems being unsubstituted or substituted by one, two or three radicals R^a:

15 R^a is independently cyano, nitro, amino, aminocarbonyl, aminothiocarbonyl, halogen, C₁-C₆-alkyl, C₁-C₆-haloalkyl, C₁-C₆-alkylcarbonyl, C₁-C₆-alkylsulfonyl, C₁-C₆-alkylsulfinyl, C₃-C₆-cycloalkyl, C₁-C₆-alkoxy, C₁-C₆-haloalkoxy, C₁-C₆-alkyloxycarbonyl, C₁-C₆-alkylthio, C₁-C₆-alkylamino, di-C₁-C₆-alkylamino, C₁-C₆-alkylaminocarbonyl, di-C₁-C₆-alkylaminocarbonyl, C₁-C₆-alkylaminothiocarbonyl, di-C₁-C₆-alkylaminothiocarbonyl, C₂-C₆-alkenyl, C₂-C₆-alkenyloxy, phenyl, phenoxy, benzyl, benzyloxy, 5- or 6-membered heterocyclyl, 5- or 6-membered heteroaryl, 5- or 6-membered heteroaryloxy, C(=NOR^a)-R^b or OC(R^a)₂-C(R^b)=NOR^b, the cyclic radicals, in turn, being unsubstituted or substituted by one, two or three radicals R^b:

25 R^b is independently cyano, nitro, halogen, amino, aminocarbonyl, aminothiocarbonyl, C₁-C₆-alkyl, C₁-C₆-haloalkyl, C₁-C₆-alkylsulfonyl, C₁-C₆-alkylsulfinyl, C₃-C₆-cycloalkyl, C₁-C₆-alkoxy, C₁-C₆-haloalkoxy, C₁-C₆-alkyloxycarbonyl, C₁-C₆-alkylthio, C₁-C₆-alkylamino, di-C₁-C₆-alkylamino, C₁-C₆-alkylaminocarbonyl, di-C₁-C₆-alkylaminocarbonyl, C₁-C₆-alkylaminothiocarbonyl, di-C₁-C₆-alkylaminothiocarbonyl, C₂-C₆-alkenyl, C₂-C₆-alkenyloxy, C₃-C₆-cycloalkyl, C₃-C₆-cycloalkenyl, phenyl, phenoxy, phenylthio, benzyl, benzyloxy, 5- or 6-membered heterocyclyl, 5- or 6-membered heteroaryl, 5- or 6-membered heteroaryloxy or C(=NOR^A)-R^B;

30

R^A , R^B are independently hydrogen or C_1 - C_6 -alkyl;

- R^1 is hydrogen, cyano, C_1 - C_4 -alkyl, C_1 - C_4 -haloalkyl, C_3 - C_6 -cycloalkyl, C_1 - C_4 -alkoxy, or C_1 - C_4 -alkylthio;
- R^2 is phenyl, phenylcarbonyl, phenylsulfonyl, 5- or 6-membered heteroaryl, 5- or 6-membered heteroarylcarbonyl or 5- or 6-membered heteroarylsulfonyl, the ring systems being unsubstituted or substituted by one, two or three radicals R^a ,
- C_1 - C_{10} -alkyl, C_3 - C_6 -cycloalkyl, C_2 - C_{10} -alkenyl, C_2 - C_{10} -alkynyl, C_1 - C_{10} -alkylcarbonyl, C_2 - C_{10} -alkenylcarbonyl, C_3 - C_{10} -alkynylcarbonyl, C_1 - C_{10} -alkylsulfonyl, or $C(=NOR^a)-R^b$, the hydrocarbon radicals of these groups being unsubstituted or substituted by one, two or three radicals R^c :
- R^c is independently cyano, nitro, amino, aminocarbonyl, aminothiocarbonyl, halogen, C_1 - C_6 -alkyl, C_1 - C_6 -haloalkyl, C_1 - C_6 -alkylsulfonyl, C_1 - C_6 -alkylsulfinyl, C_1 - C_6 -alkoxy, C_1 - C_6 -haloalkoxy, C_1 - C_6 -alkoxycarbonyl, C_1 - C_6 -alkylthio, C_1 - C_6 -alkylamino, di- C_1 - C_6 -alkylamino, C_1 - C_6 -alkylaminocarbonyl, di- C_1 - C_6 -alkylaminocarbonyl, C_1 - C_6 -alkylaminothiocarbonyl, di- C_1 - C_6 -alkylaminothiocarbonyl, C_2 - C_6 -alkenyl, C_2 - C_6 -alkenyloxy,
- C_3 - C_6 -cycloalkyl, C_3 - C_6 -cycloalkyloxy, 5- or 6-membered heterocyclyl, 5- or 6-membered heterocyclyloxy, benzyl, benzyloxy, phenyl, phenoxy, phenylthio, 5- or 6-membered heteroaryl, 5- or 6-membered heteroaryloxy and heteroarylthio, it being possible for the cyclic groups, in turn, to be partially or fully halogenated or to have attached to them one, two or three radicals R^a ; and

R^3 is hydrogen, C_1 - C_6 -alkyl, C_2 - C_6 -alkenyl, C_2 - C_6 -alkynyl, the hydrocarbon radicals of these groups being unsubstituted or substituted by one, two or three radicals R^c ; and

30

2) the strobilurins (2-chloro-5-[1-(3-methyl-benzyloxyimino)-ethyl]-benzyl)-carbamic acid methyl ester, (2-chloro-5-[1-(6-methyl-pyridine-2-ylmethoxyimino)-ethyl]-benzyl)-carbamic acid methyl ester and 2-(ortho-((2,5-dimethylphenyl-oxymethylene)phenyl)-3-methoxy-acrylic acid methyl ester.

35 Compounds of formula I are generally known as fungicides since a long time (see references above).

The publications cited above describe synthesis routes for the preparation of strobilurins used in the method according to the invention, the disclosure of which is hereby incorporated.

Especially preferred according to the invention are strobilurins with the following
5 meanings of the substituents, in each case alone or in combination, the disclosure of the publications cited being hereby incorporated.

In one preferred embodiment of the present invention, preferred strobilurins of formula I wherein Q is N(-OCH₃)-COOCH₃ are the compounds described in the publications WO 93/15046 and WO 96/01256.

10 In another preferred embodiment of the present invention, preferred strobilurins of formula I, wherein Q is C(=CH-OCH₃)-COOCH₃ are the compounds described in the publications EP-A 178 826 and EP-A 278 595.

In another preferred embodiment of the present invention, preferred strobilurins of formula I, wherein Q is C(=N-OCH₃)-COOCH₃ are the compounds described in the
15 publications EP-A 253 213 and EP-A 254 426.

In another preferred embodiment of the present invention, preferred strobilurins of formula I, wherein Q is C(=N-OCH₃)-CONHCH₃ are the compounds described in the publications EP-A 398 692, EP-A 477 631 and EP-A 628 540.

In another preferred embodiment of the present invention, preferred strobilurins of
20 *formula I, wherein Q is C(=CH-CH₃)-COOCH₃ are the compounds described in the publications EP-A 280 185 and EP-A 350 691.*

In another preferred embodiment of the present invention, preferred strobilurins of formula I, wherein Q is -CH₂O-N=C(R¹)-B are the compounds described in the publications EP-A 460 575 and EP-A 463 488.

25 In another preferred embodiment of the present invention, preferred strobilurins of formula I, wherein A is -O-B are the compounds described in the publications EP-A 382 375 and EP-A 398 692.

In another preferred embodiment of the present invention, preferred strobilurins of formula I, wherein A is -CH₂O-N=C(R¹)-C(R²)=N-OR³ are the compounds described in
30 the publications WO 95/18789, WO 95/21153, WO 95/21154, WO 97/05103 and WO 97/06133.

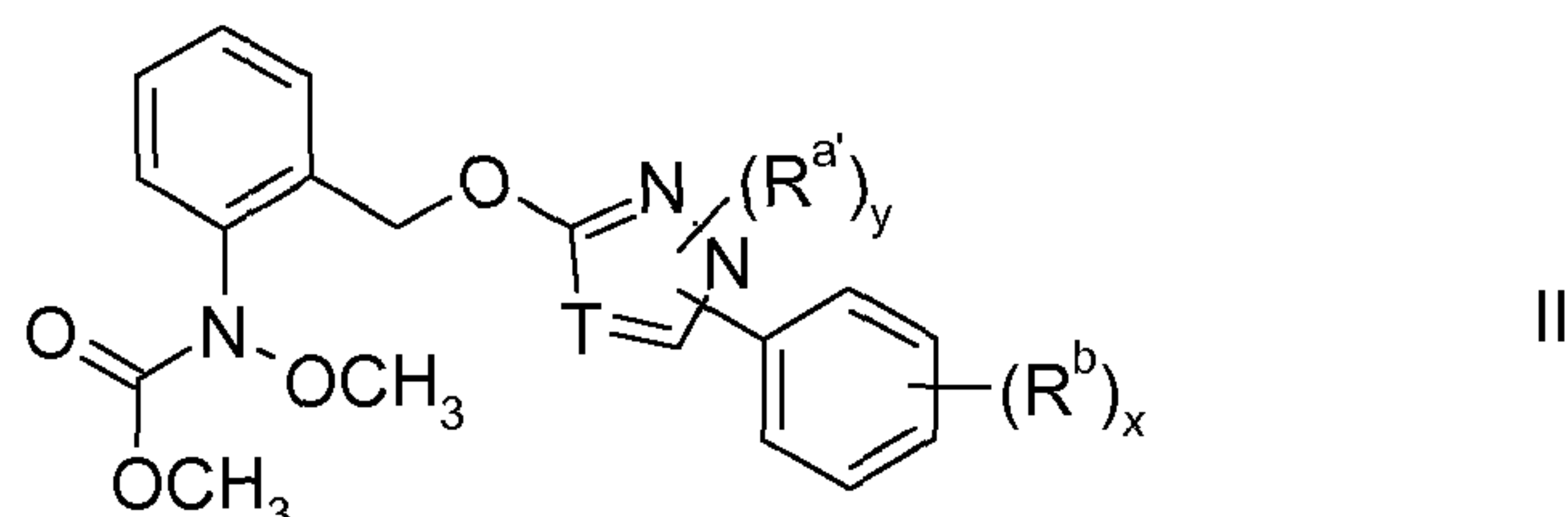
Especially preferred are the strobilurins of the formula I in which
Q is N(-OCH₃)-COOCH₃,
A is CH₂-O- and

B is 3-pyrazolyl or 1,2,4-triazolyl, where B has attached to it one or two substituents selected from the group of

- halogen, methyl and trifluoromethyl and
- phenyl and pyridyl, in particular 2-pyridyl, substituted by 1 to 3 radicals R^b .

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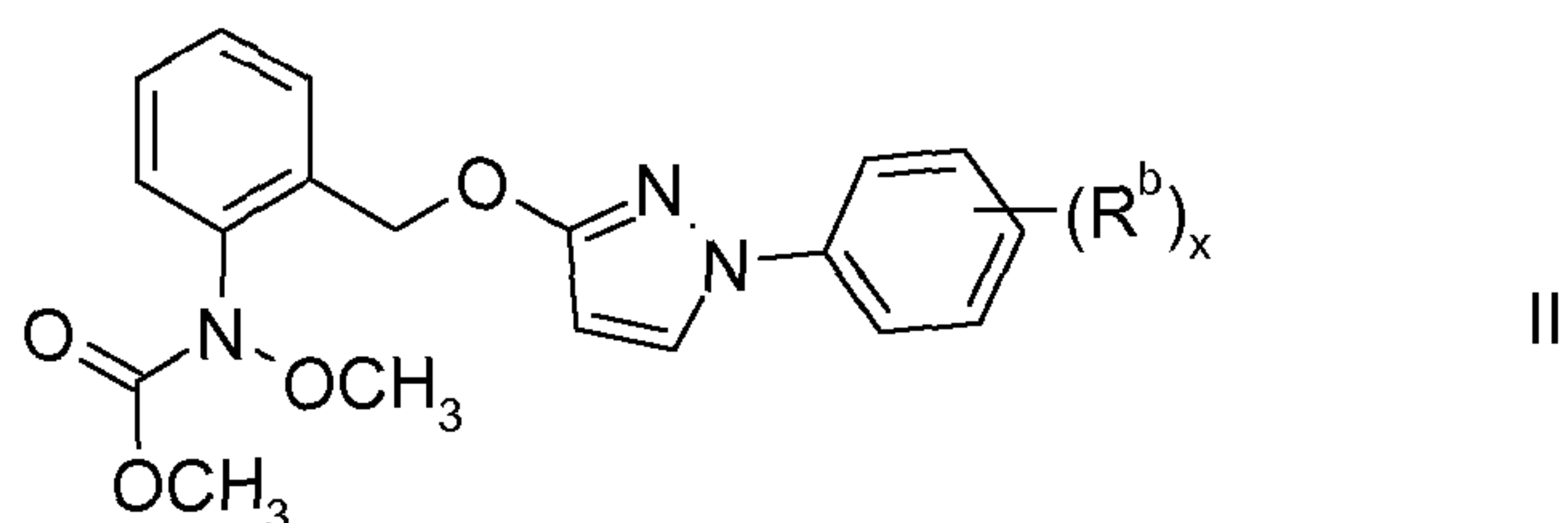
These active ingredients are described by formula II,



in which T is a carbon or a nitrogen atom, R^a is independently selected from halogen, methyl and trifluoromethyl, y is zero, 1 or 2, R^b is as defined for formula I, x is zero, 1, 2, 3 or 4.

10

More preferred active ingredients are those of formula II':



in which R^b is as defined for formula I.

According to another embodiment of the present invention, the active ingredient (B) is a carboxylic amide selected from the group B2).

15

According to another embodiment of the present invention, the active ingredient (B) is anazole selected from the group B3).

According to another embodiment of the present invention, the active ingredient (B) is a nitrogen-containing heterocyclic compound selected from the group B4).

According to another embodiment of the present invention, the active ingredient (B) is a carbamate or thiocarbamate selected from the group B5).

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According to another embodiment of the present invention, the active ingredient (B) is a guanidine selected from the group B6).

According to another embodiment of the present invention, the active ingredient (B) is an antibiotic selected from the group B7).

According to another embodiment of the present invention, the active ingredient (B) is a fentin salt.

- 5 According to another embodiment of the present invention, the active ingredient (B) is isoprothiolan or dithianon.

According to another embodiment of the present invention, the active ingredient (B) is an organophosphorous compound selected from the group B10).

- 10 According to another embodiment of the present invention, the active ingredient (B) is an organo-chloro compound selected from the group B11).

According to another embodiment of the present invention, the active ingredient (B) is a nitrophenyl derivative selected from the group B12).

According to another embodiment of the present invention, the active ingredient (B) is an inorganic ingredient selected from the group B13).

- 15 According to another embodiment of the present invention, the active ingredient (B) is spiroxamine.

According to another embodiment of the present invention, the active ingredient (B) is cyflufenamide.

- 20 According to another embodiment of the present invention, the active ingredient (B) is cymoxanil.

According to another embodiment of the present invention, the active ingredient (B) is metrafenone.

- 25 According to still another preferred embodiment of the present invention, the active ingredient (B) is (EZ)-3-(2-chloro-1,3-thiazol-5-ylmethyl)-5-methyl-1,3,5-oxadiazinan-4-ylidene(nitro)amine (thiamethoxam).

According to still another preferred embodiment of the present invention, the active ingredient (B) is 5-amino-1-(2,6-dichloro- α,α,α -trifluoro-*p*-tolyl)-4-trifluoromethylsulfinylpyrazole-3-carbonitrile (fipronil).

- 30 According to still another preferred embodiment of the present invention, the active ingredient (B) is (EZ)-1-(6-chloro-3-pyridylmethyl)-*N*-nitroimidazolidin-2-ylideneamine (imidacloprid).

According to still another preferred embodiment of the present invention, the active ingredient (B) is selected from the group consisting of:

Fungicide:

Anilide, preferably Isopyrazam, N-(2-bicyclopropyl-2-yl-phenyl)-3-difluoromethyl-1-methyl-1H-pyrazole-4-carboxylic acid amide

5 N-(trans-2-bicyclopropyl-2-yl-phenyl)-3-difluoromethyl-1-methyl-1H-pyrazole-4-carboxylic acid amide

N-(cis-2-bicyclopropyl-2-yl-phenyl)-3-difluoromethyl-1-methyl-1H-pyrazole-4-carboxylic acid amide

N-(2-(1,3-dimethyl-butyl)-phenyl)-1,3-dimethyl-5-fluoro-1H-pyrazole-4-carboxylic acid amide

10 3-Difluoromethyl-1-methyl-1H-pyrazole-4-carboxylic acid (2',4'-difluorobiphenyl-2-yl)-amide

3-Difluoromethyl-1-methyl-1H-pyrazole-4-carboxylic acid (2',4'-dichlorobiphenyl-2-yl)-amide

15 3-Difluoromethyl-1-methyl-1H-pyrazole-4-carboxylic acid (3',4'-difluorobiphenyl-2-yl)-amide

3-Difluoromethyl-1-methyl-1H-pyrazole-4-carboxylic acid (3',4'-dichlorobiphenyl-2-yl)-amide

3-Difluoromethyl-1-methyl-1H-pyrazole-4-carboxylic acid (3',5'-difluorobiphenyl-2-yl)-amide

20 3-Difluoromethyl-1-methyl-1H-pyrazole-4-carboxylic acid (3',5'-dichlorobiphenyl-2-yl)-amide

3-Difluoromethyl-1-methyl-1H-pyrazole-4-carboxylic acid (3',4',5'-trifluorobiphenyl-2-yl)-amide

25 Fluopyram, 5-Amino-2-isopropyl-3-oxo-4-ortho-tolyl-2,3-dihydro-pyrazole-1-carbothioic acid S-allyl ester

N'-(4-(4-chloro-3-trifluoromethyl-phenoxy)-2,5-dimethyl-phenyl)-N-ethyl-N-methyl formamidine

30 N'-(4-(4-fluoro-3-trifluoromethyl-phenoxy)-2,5-dimethyl-phenyl)-N-ethyl-N-methyl formamidine

N'-(2-methyl-5-trifluoromethyl-4-(3-trimethylsilyl-propoxy)-phenyl)-N-ethyl-N-methyl formamidine

N'-(5-difluoromethyl-2-methyl-4-(3-trimethylsilyl-propoxy)-phenyl)-N-ethyl-N-methyl formamidine,

35

According to still another preferred embodiment of the present invention, the active ingredient (B) is selected from the group consisting of: PGR's: abscisic acid, Amido-chlor, Ancymidol, 6-Benzylaminopurine, Brassinolide, Butralin, Choline chloride, Cycilanilide, Daminozide, Dikegulac, Dimethipin, 2,6-Dimethylpuridine, Ethephon, Flumetralin, Flurprimidol, Fluthiacet, Forchlorfenuron, Gibberellic acid, Inabenfide, indole-3-acetic acid, Maleic hydrazide, Mefluidide, naphthaleneacetic acid, N-6 benzy-

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ladenine, Paclobutrazol, Prohydrojasmon, Thidiazuron, Triapenthenol, Tributyl phosphorotrithioate, 2,3,5-tri-iodobenzoic acid, Uniconazole,

According to still another preferred embodiment of the present invention, the active ingredient (B) is selected from the group consisting of: insecticides: acephate, chlorpyrifos, diazinon, dichlorvos, dimethoate, fenitrothion, methamidophos, methidathion, methyl-parathion, monocrotophos, phorate, profenofos, terbufos, aldicarb, carbaryl, carbofuran, carbosulfan, methomyl, thiodicarb, bifenthrin, cyfluthrin, cypermethrin, alpha-cypermethrin, zeta-cypermethrin, deltamethrin, esfenvalerate, lambda-cyhalothrin, permethrin, tefluthrin, diflubenzuron, flufenoxuron, lufenuron, teflubenzuron, spirotetramat; clothianidin, dinotefuran, imidacloprid, thiamethoxam, acetamiprid, thiacloprid; endosulfan, fipronil, abamectin, emamectin, spinosad, spinetoram, hydramethylnon; chlorfenapyr; fenbutatin oxide, indoxacarb, metaflumizone, flonicamid, flubendiamide, chlorantraniliprole, cyazypyr (HGW86), cyflumetofen most preferred: acephate, chlorpyrifos, dimethoate, methamidophos, terbufos, aldicarb, carbofuran, bifenthrin, cypermethrin, alpha-cypermethrin, deltamethrin, lambda-cyhalothrin, tefluthrin, flufenoxuron, teflubenzuron, spirotetramat; clothianidin, imidacloprid, thiamethoxam, endosulfan, fipronil, abamectin, spinosad, spinetoram, hydramethylnon; chlorfenapyr; indoxacarb, metaflumizone, flubendiamide, chlorantraniliprole, cyazypyr (HGW86), cyflumetofen.

According to still another preferred embodiment of the present invention, the active ingredient (B) is selected from the group consisting of: fungicides:

azoxystrobin, Dimoxystrobin, Kresoxim-methyl, Orysastrobin, Pyraclostrobin, Trifloxystrobin, Bixafen, Boscalid, Isopyrazam, Metalaxyl, Penthiopyrad, 3-Difluoromethyl-1-methyl-1H-pyrazole-4-carboxylic acid (2',4',5'-trifluorobiphenyl-2-yl)-amide, N-(2-bicyclopropyl-2-yl-phenyl)-3-difluoromethyl-1-methyl-1H-pyrazole-4-carboxylic acid amide, Dimethomorph, Fluopicolide, Difenoconazole, Epoxiconazole, Fluquinconazole, Flusilazole, Flutriafol, Metconazol, Myclobutanil, Propiconazole, Prothioconazole, Tebuconazole, Tetraconazole, Triticonazole, Prochloraz, Carbendazim, Fluazinam, Cyprodinil, Pyrimethanil, Fludioxonil, Dodemorph, Fenpropimorph, Tridemorph, Fenpropidin, Iprodione, Vinclozolin, Famoxadone, Probenazole, Captan, Folpet, 5-ethyl-6-octyl-[1,2,4]triazolo[1,5-a]pyrimidine-7-ylamine, Mancozeb, Maneb, Metiram, Thiram, Dithianon, Fosetyl, Fosetyl-aluminium, Chlorothalonil, Thiophanate Methyl, Cymoxanil, Metrafenone, Spiroxamine, most preferred: Azoxystrobin, Dimoxystrobin, Kresoxim-methyl, Orysastrobin, Pyraclostrobin, Trifloxystrobin, Bixafen, Boscalid, Isopyrazam, Metalaxyl, Penthiopyrad, 3-Difluoromethyl-1-methyl-1H-pyrazole-4-carboxylic acid (2',4',5'-trifluorobiphenyl-2-yl)-amide, Dimethomorph, Difenoconazole, Epoxiconazole, Fluquinconazole, Metconazol, Propiconazole, Prothioconazole, Tebuconazole, Triticonazole, Prochloraz, Carbendazim, Cyprodinil, Pyrimethanil, Fenpropimorph, Tridemorph, Iprodione, 5-ethyl-6-octyl-[1,2,4]triazolo[1,5-a]pyrimidine-7-ylamine, Mancozeb, Maneb, Metiram, Dithianon, Chlorothalonil, Thiophanate Methyl, Cymoxanil,

Metrafenone. According to still another preferred embodiment of the present invention, the active ingredient (B) is selected from the group consisting of: N-(3',4',5'-trifluorobiphenyl-2-yl)-3-difluoromethyl-1-methyl-1H-pyrazole-4-carboxamide,

5 N-[2-(4'-trifluoromethylthio)-biphenyl]-3-difluoromethyl-1-methyl-1H-pyrazole-4-carboxamide,

N-[2-(1,3-dimethylbutyl)-phenyl]-1,3-dimethyl-5-fluoro-1H-pyrazole-4-carboxamide,

N-(2-bicyclopropyl-2-yl-phenyl)-3-difluoromethyl-1-methyl-1H-pyrazole-4-carboxamide,

N-(cis-2-bicyclopropyl-2-yl-phenyl)-3-difluoromethyl-1-methyl-1H-pyrazole-4-carboxamide,

10 N-(trans-2-bicyclopropyl-2-yl-phenyl)-3-difluoromethyl-1-methyl-1H-pyrazole-4-carboxamide,

N-[1,2,3,4-tetrahydro-9-(1-methylethyl)-1,4-methanonaphthalen-5-yl]-3-(difluoromethyl)-1-methyl-1H-pyrazole-4-carboxamide.

15 According to still another preferred embodiment of the present invention, the active ingredient (B) is selected from the group consisting of herbicides:

Acetochlor, Dimethenamid, Metolachlor, Metazachlor, Glyphosate, Glufosinate, Sulfosate, Clodinafop, Fenoxaprop, Fluazifop, Haloxyfop, Paraquat, Phenmedipham, Clethodim, Cycloxydim, Profoxydim, Sethoxydim, Tepraloxym, Pendimethalin, Trifluralin, Acifluorfen, Bromoxynil, Imazamethabenz, Imazamox, Imazapic, Imazapyr, Imazaquin, Imazethapyr, 2,4-D, Chloridazon, Clopyralid, Fluroxypyr, Picloram, Picolinafen, Bensulfuron, Chlorimuron ethyl, Cyclosulfamuron, Iodosulfuron, Mesosulfuron, Metsulfuron-methyl, Nicosulfuron, Rimsulfuron, Triflurosulfuron, Atrazine, Hexazinone, Diuron, Florasulam, Pyroxasulfone, Bentazone, Cinidon-ethyl, Cinmethylin, Dicamba, Diflufenzopyr, Quinclorac, Quinmerac, Mesotrione, Saflufenacil, Topramezone;

25 most preferred:

Acetochlor, Dimethenamid, Metolachlor, Metazachlor, Glyphosate, Glufosinate, Sulfosate, Fenoxaprop, Paraquat, Cycloxydim, Profoxydim, Sethoxydim, Tepraloxym, Pendimethalin, Acifluorfen, Imazamethabenz, Imazamox, Imazapic, Imazapyr, Imazaquin, Imazethapyr, 2,4-D, Chloridazon, Picloram, Picolinafen, Cyclosulfamuron, Triflurosulfuron, Atrazine, Pyroxasulfone, Bentazone, Cinidon-ethyl, Cinmethylin, Dicamba, Diflufenzopyr, Quinclorac, Quinmerac, Mesotrione, Saflufenacil, Topramezone

35 In one embodiment a plant selected from the group of transgenic plants with at least one transgenic modification as compared to a corresponding wild-type plant with an increased or generated activities of a polypeptide with an activity as indicated in table B, column 5, line No 1, 5, 7, 10, 11, 12, 16, 19, 20, 21, 23, 25, 27, 28, 30, 31, 33, 37, 39, 40, 42, 43, 91, 105, 107, 112, 150, 159, 164, 165, 166, 167, 168, 169, 170, 171, 172, 173, 174, 175, 176, 177, 178, 182, 186, 187, 188, 189, 190, 194, 196, 203, 204, 205, 206, 207, 209, 210, 211, 213, respectively plants with an increased or generated

activities of a polypeptide according to the sequence number as depicted in table B, column 3, line No 1, 5, 7,10, 11, 12, 16, 19, 20, 21, 23, 25, 27, 28, 30, 31, 33, 37, 39, 40, 42, 43, 91, 105, 107, 112, 150, 159, 164, 165, 166, 167, 168, 169, 170, 171, 172, 173, 174, 175, 176, 177, 178,182, 186, 187, 188, 189, 190, 194, 196, 203, 204, 205,
 5 206, 207, 209, 210, 211, 213, respectively plants with an increased or generated expression of the gene as depicted in table B, column 1, line No 1, 5, 7,10, 11, 12, 16, 19, 20, 21, 23, 25, 27, 28, 30, 31, 33, 37, 39, 40, 42, 43, 91, 105, 107, 112, 150, 159, 164, 165, 166, 167, 168, 169, 170, 171, 172, 173, 174, 175, 176, 177, 178,182, 186, 187, 188, 189, 190, 194, 196, 203, 204, 205, 206, 207, 209, 210, 211, 213;

10 in combination with the treatment with an effective amount of any of the active ingredients selected from the group consisting of

acephate, chlorpyrifos, diazinon, dichlorvos, dimethoate, fenitrothion, methamidophos, methidathion, methyl-parathion, monocrotophos, phorate, profenofos, terbufos, aldicarb, carbaryl, carbofuran, carbosulfan, methomyl, thiodicarb, bifenthrin, cyfluthrin,
 15 cypermethrin, alpha-cypermethrin, zeta-cypermethrin, deltamethrin, esfenvalerate, lambda-cyhalothrin, permethrin, tefluthrin, diflubenzuron, flufenoxuron, lufenuron, te-flubenzuron, spirotetramat; clothianidin, dinotefuran, imidacloprid, thiamethoxam, acetamiprid, thiacloprid; endosulfan, fipronil, abamectin, emamectin, spinosad, spinetoram, hydramethylnon; chlorfenapyr; fenbutatin oxide, indoxacarb, metaflumizone,
 20 flonicamid, flubendiamide, chlorantraniliprole, cyazypyr (HGW86), cyflumetofen,

Azoxystrobin, Dimoxystrobin, Kresoxim-methyl, Orysastrobin, Pyraclostrobin, Trifloxystrobin, Bixafen, Boscalid, Isopyrazam, Metalaxyl, Penthiopyrad, 3-Difluoromethyl-1-methyl-1H-pyrazole-4-carboxylic acid (2',4',5'-trifluorobiphenyl-2-yl)-amide , N-(2-bicyclopropyl-2-yl-phenyl)-3-difluoromethyl-1-methyl-1H-pyrazole-4-carboxylic acid
 25 amide, Dimethomorph, Fluopicolide, Difenconazole, Epoxiconazole, Fluquinconazole, Flusilazole, Flutriafol, Metconazol, Myclobutanil, Propiconazole, Prothioconazole, Tebuconazole, Tetraconazole, Triticonazole, Prochloraz, Carbendazim , Fluazinam, Cyprodinil, Pyrimethanil, Fludioxonil, Dodemorph, Fenpropimorph, Tridemorph, Fenpropidin, Iprodione, Vinclozolin, Famoxadone, Probenazole, Captan, Folpet, 5-ethyl-6-octyl-[1,2,4]triazolo[1,5-a]pyrimidine-7-ylamine, Mancozeb, Maneb, Metiram, Thiram,
 30 Dithianon, Fosetyl, Fosetyl-aluminium, Chlorothalonil, Thiophanate Methyl, Cymoxanil, Metrafenone and Spiroxamine,

as depicted detailed in Table C.

In one embodiment of the invention the combination of the transgenic modification,
 35 e.g. the increased or generated activity in the plant and the active ingredient is depicted in table C.

In one embodiment 2, 3, 4, 5, 6, 7, 8, 9, 10 ore more of the above mentioned active ingredients are used simultaneously for the treatment.

In one embodiment a plant selected from the group of transgenic plants with at least one transgenic modification as compared to a corresponding wild-type plant with an increased or generated activities of a polypeptide with an activity as indicated in table B, column 5, line No 1, 5, 7, 10, 11, 12, 16, 19, 20, 21, 23, 25, 27, 28, 30, 31, 33, 37, 39, 40, 42, 43, 91, 105, 107, 112, 150, 159, 164, 165, 166, 167, 168, 169, 170, 171, 172, 173, 174, 175, 176, 177, 178, 182, 186, 187, 188, 189, 190, 194, 196, 203, 204, 205, 206, 207, 209, 210, 211, 213, respectively plants with an increased or generated activities of a polypeptide according to the sequence number as depicted in table B, column 3, line No 1, 5, 7, 10, 11, 12, 16, 19, 20, 21, 23, 25, 27, 28, 30, 31, 33, 37, 39, 40, 42, 43, 91, 105, 107, 112, 150, 159, 164, 165, 166, 167, 168, 169, 170, 171, 172, 173, 174, 175, 176, 177, 178, 182, 186, 187, 188, 189, 190, 194, 196, 203, 204, 205, 206, 207, 209, 210, 211, 213, respectively plants with an increased or generated expression of the gene as depicted in table B, column 1, line No 1, 5, 7, 10, 11, 12, 16, 19, 20, 21, 23, 25, 27, 28, 30, 31, 33, 37, 39, 40, 42, 43, 91, 105, 107, 112, 150, 159, 164, 165, 166, 167, 168, 169, 170, 171, 172, 173, 174, 175, 176, 177, 178, 182, 186, 187, 188, 189, 190, 194, 196, 203, 204, 205, 206, 207, 209, 210, 211, 213;

in combination with the treatment with an effective amount of any of the active ingredients selected from the group consisting of fipronil and pyraclostrobin.

If the component (A) is a sulfated glucan as defined above, the active ingredient (B) can also be the active ingredient maneb.

In another aspect, the present invention relates to a composition comprising an extract from seaweed and a pesticide. The seaweed extract is preferably obtained according to the methods as described in WO 93/06730, which is hereby incorporated by reference. Particularly, the extract is obtained from brown algae, wherein the brown algae is specifically from the *Phaeophyceae* type (in particular *Fucales* or *Laminariales*). In general, the extraction can be accomplished by basic hydrolysis of the respective seaweed in the presence of a reducing agent such as an alkali metal borohydride. Then, the resulting hydrolysate is neutralised to a pH of about 6 to 8, e.g. by the addition of a strong acid. The product is filtrated and optionally diafiltrated or an electrodiagnosis may be carried out (cf. WO 93/06730).

The following list M of pesticides together with one or more of the above mentioned active ingredients (B) according to the invention can be used and potential synergistic effects might be produced, whereby the list is intended to illustrate the possible combinations, but not to impose any limitation:

M.1. Organo(thio)phosphates: acephate, azamethiphos, azinphos-ethyl, azinphos-methyl, chlorethoxyfos, chlorfenvinphos, chlormephos, chlorpyrifos, chlorpyrifos-methyl, coumaphos, cyanophos, demeton-S-methyl, diazinon, dichlorvos/ DDVP, dicrotophos, dimethoate, dimethylvinphos, disulfoton, EPN, ethion, ethoprophos, famphur, fenamiphos, fenitrothion, fenthion, flupyrazophos, fosthiazate, heptenophos,

isoxathion, malathion, mecarbam, methamidophos, methidathion, mevinphos, monocrotophos, naled, omethoate, oxydemeton-methyl, parathion, parathion-methyl, phenthoate, phorate, phosalone, phosmet, phosphamidon, phoxim, pirimiphos-methyl, profenofos, propetamphos, prothiofos, pyraclofos, pyridaphenthion, quinalphos, sulfo-
 5 tep, tebupirimfos, temephos, terbufos, tetrachlorvinphos, thiometon, triazophos, tri-
 chlorfon, vamidothion;

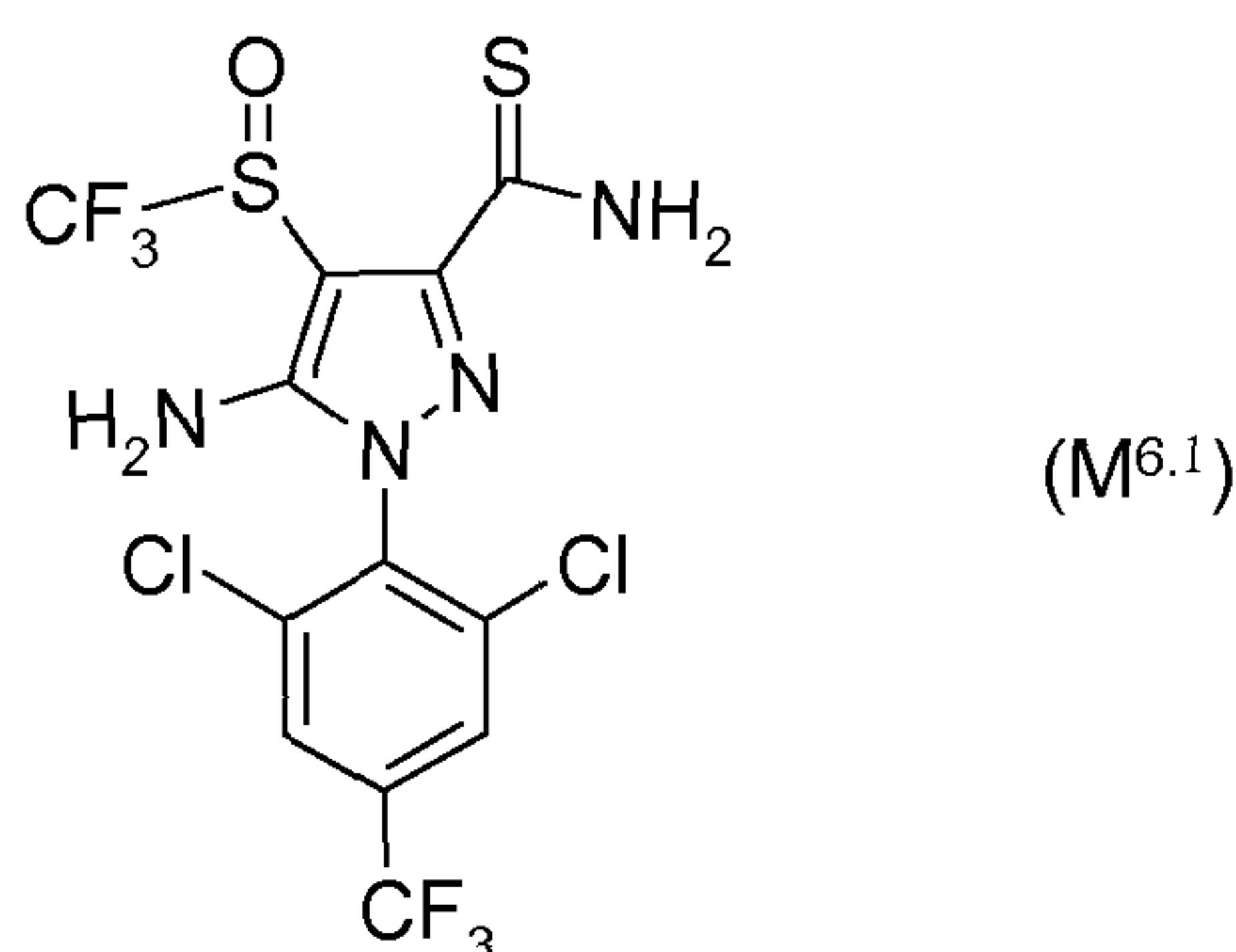
M.2. Carbamates: aldicarb, alanycarb, bendiocarb, benfuracarb, butocarboxim, butoxycarboxim, carbaryl, carbofuran, carbosulfan, ethiofencarb, fenobucarb, formetanate, furathiocarb, isoprocarb, methiocarb, methomyl, metolcarb, oxamyl, pirimicarb,
 10 propoxur, thiodicarb, thiofanox, trimethacarb, XMC, xylylcarb, triazamate;

M.3. Pyrethroids: acrinathrin, allethrin, d-cis-trans allethrin, d-trans allethrin, bifenthrin, bioallethrin, bioallethrin S-cyclopentenyl, bioresmethrin, cycloprothrin, cyfluthrin, beta-, yfluthrin, cyhalothrin, lambda-cyhalothrin, gamma-cyhalothrin, cypermethrin, alpha-cypermethrin, beta-cypermethrin, theta-cypermethrin, zeta-cypermethrin, cyphe-
 15 nothrin, deltamethrin, empenthrin, esfenvalerate, etofenprox, fenpropathrin, fenvalerate, flucythrinate, flumethrin, tau-fluvalinate, halfenprox, imiprothrin, permethrin, phenothrin, prallethrin, resmethrin, RU 15525, silafluofen, tefluthrin, tetramethrin, tralome-
 thrin, transfluthrin, ZXI 8901;

M.4. Juvenile hormone mimics: hydroprene, kinoprene, methoprene, fenoxycarb,
 20 pyriproxyfen;

M.5. Nicotinic receptor agonists/antagonists compounds: acetamiprid, bensultap, cartap hydrochloride, clothianidin, dinotefuran, imidacloprid, thiamethoxam, nitenpyram, nicotine, spinosad (allosteric agonist), thiacloprid, thiocyclam, thiosultap-sodium and AKD1022.

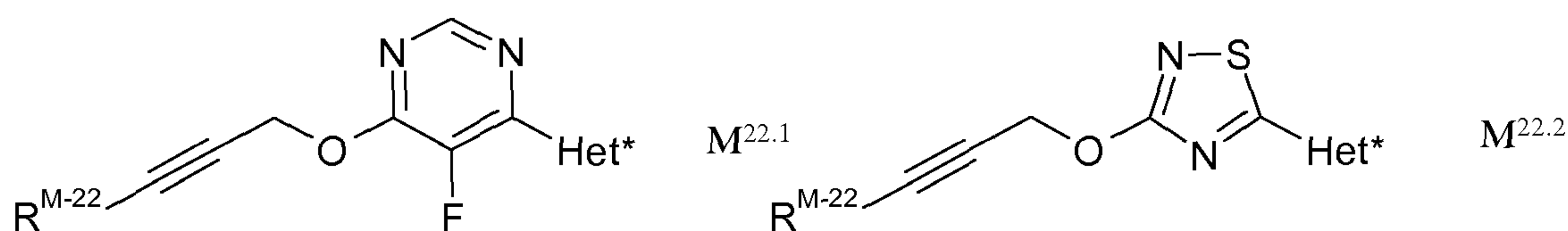
25 M.6. GABA gated chloride channel antagonist compounds: chlordane, endosulfan, gamma-HCH (lindane); acetoprole, ethiprole, fipronil, pyrafluprole, pyriprole, vaniliprole, the phenylpyrazole compound of formula M^{6.1}



M.7. Chloride channel activators: abamectin, emamectin benzoate, milbemectin, le-
 30 pimectin;

- M.8. METI I compounds: fenazaquin, fenpyroximate, pyrimidifen, pyridaben, tebufenpyrad, tolfenpyrad, flufenerim, rotenone;
- M.9. METI II and III compounds: acequinocyl, fluacyprim, hydramethylnon;
- M.10. Uncouplers of oxidative phosphorylation: chlorfenapyr, DNOC;
- 5 M.11. Inhibitors of oxidative phosphorylation: azocyclotin, cyhexatin, diafenthiuron, fenbutatin oxide, propargite, tetradifon;
- M.12. Moulting disruptors: cyromazine, chromafenozide, halofenozide, methoxyfenozide, tebufenozide;
- M.13. Synergists: piperonyl butoxide, tribufos;
- 10 M.14. Sodium channel blocker compounds: indoxacarb, metaflumizone;
- M.15. Fumigants: methyl bromide, chloropicrin sulfuryl fluoride;
- M.16. Selective feeding blockers: crylotie, pymetrozine, flonicamid;
- M.17. Mite growth inhibitors: clofentezine, hexythiazox, etoxazole;
- M.18. Chitin synthesis inhibitors: buprofezin, bistrifluron, chlorfluazuron, diflubenzuron, 15 flucycloxuron, flufenoxuron, hexaflumuron, lufenuron, novaluron, noviflumuron, te-flubenzuron, triflumuron;
- M.19. Lipid biosynthesis inhibitors: spiroadiclofen, spiromesifen, spirotetramat;
- M.20. octapaminergic agonsits: amitraz;
- M.21. ryanodine receptor modulators: flubendiamide;
- 20 M.22. Various: aluminium phosphide, amidoflumet, benclothiaz, benzoximate, bifenazate, borax, bromopropylate, cyanide, cyenopyrafen, cyflumetofen, chinomethionate, dicofol, fluoroacetate, phosphine, pyridalyl, pyrifluquinazon, sulfur, organic sulfur compounds, tartar emetic; pyrimidinyl alkynylether compounds $M^{22.1}$ or thiadiazolyl alkynylether compounds $M^{22.2}$;

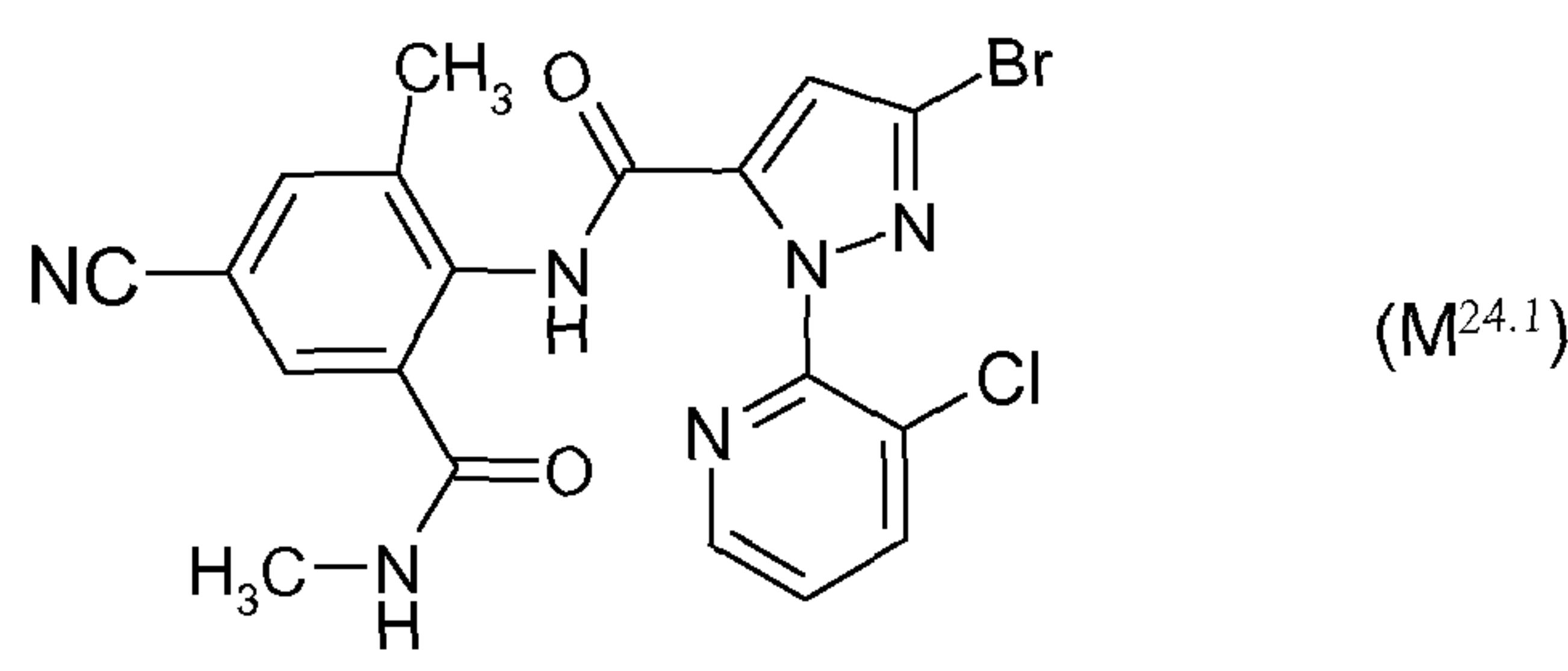
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wherein R^{M-22} is methyl or ethyl and Het* is 3,3-dimethylpyrrolidin-1-yl, 3-methylpiperidin-1-yl, 3,5-dimethylpiperidin-1-yl, 3-trifluormethylpiperidin-1-yl, hexahydroazepin-1-yl, 2,6-dimethylhexahydroazepin-1-yl or 2,6-dimethylmorpholin-4-yl.

M.23. N-R'-2,2-dihalo-1-R''cyclo-propanecarboxamide-2-(2,6-dichloro-
5 alpha, alpha -tri-fluoro-p-tolyl)hydrazone or N-R'-2,2-di(R''')propionamide-2-(2,6-dichloro-alpha, alpha, alpha -trifluoro-p-tolyl)-hydrazone, wherein R' is methyl or ethyl, halo is chloro or bromo, R'' is hydrogen or methyl and R''' is methyl or ethyl;

M.24. Anthranilamides: chloranthraniliprole, the compound of formula M²⁴ 1



10

M.25. Malononitrile compounds: CF₂HCF₂CF₂CF₂CH₂C(CN)₂CH₂CH₂CF₃ (2-(2,2,3,3,4,4,5,5-octafluoropentyl)-2-(3,3,3-trifluoro-propyl)malononitrile), CF₃(CH₂)₂C(CN)₂CH₂(CF₂)₅CF₂H, (2-(2,2,3,3,4,4,5,5,6,6,7,7-Dodecafluoro-heptyl)-2-(3,3,3-trifluoro-propyl)-malononitrile), CF₃(CH₂)₂C(CN)₂(CH₂)₂C(CF₃)₂F (2-(3,4,4,4-Tetrafluoro-3-trifluoromethyl-butyl)-2-(3,3,3-trifluoro-propyl)-malononitrile), CF₃(CH₂)₂C(CN)₂(CH₂)₂(CF₂)₃CF₃ (2-(3,3,4,4,5,5,6,6,6-Nonafluoro-hexyl)-2-(3,3,3-trifluoro-propyl)-malononitrile), CF₂H(CF₂)₃CH₂C(CN)₂CH₂(CF₂)₃CF₂H (2,2-Bis-(2,2,3,3,4,4,5,5-octafluoro-pentyl)-malononitrile), CF₃(CH₂)₂C(CN)₂CH₂(CF₂)₃CF₃ (2-(2,2,3,3,4,4,5,5,5-Nonafluoro-pentyl)-2-(3,3,3-trifluoro-propyl)-malononitrile), CF₃(CF₂)₂CH₂C(CN)₂CH₂(CF₂)₃CF₂H (2-(2,2,3,3,4,4,4-Heptafluoro-butyl)-2-(2,2,3,3,4,4,5,5-octafluoro-pentyl)-malononitrile), CF₃CF₂CH₂C(CN)₂CH₂(CF₂)₃CF₂H (2-(2,2,3,3,4,4,5,5-Octafluoro-pentyl)-2-(2,2,3,3,3-pentafluoro-propyl)-malononitrile), CF₂HCF₂CF₂CF₂CH₂C(CN)₂CH₂CH₂CF₂CF₃ (2-(2,2,3,3,4,4,5,5-octafluoropentyl)-2-(3,3,4,4,4-pentafluorobutyl)-malonodinitrile), CF₃(CH₂)₂C(CN)₂CH₂(CF₂)₃CF₂H (2-
25 (2,2,3,3,4,4,5,5-octafluoropentyl)-2-(3,3,3-trifluoro-butyl)-malononitrile);

M.26. Microbial disruptors: *Bacillus thuringiensis* subsp. *Israelensi*, *Bacillus sphaericus*, *Bacillus thuringiensis* subsp. *Aizawai*, *Bacillus thuringiensis* subsp. *Kurstaki*, *Bacillus thuringiensis* subsp. *Tenebrionis*;

The commercially available compounds of the group M may be found in The Pesticide
30 Manual, 13th Edition, British Crop Protection Council (2003) among other publications.

Thioamides of formula M^{6.1} and their preparation have been described in WO 98/28279. Lepimectin is known from Agro Project, PJB Publications Ltd, November 2004. Benclothiaz and its preparation have been described in EP-A1 454621. Methidathion and Paraoxon and their preparation have been described in Farm Chemicals Handbook, Volume 88, Meister Publishing Company, 2001. Acetoprole and its preparation have been described in WO 98/28277. Metaflumizone and its preparation have been described in EP-A1 462 456. Flupyrzofos has been described in Pesticide Science 54, 1988, p.237-243 and in US 4822779. Pyrafluprole and its preparation have been described in JP 2002193709 and in WO 01/00614. Pyriprole and its preparation have been described in WO 98/45274 and in US 6335357. Amidoflumet and its preparation have been described in US 6221890 and in JP 21010907. Flufenerim and its preparation have been described in WO 03/007717 and in WO 03/007718. AKD 1022 and its preparation have been described in US 6300348. Chloranthraniliprole has been described in WO 01/70671, WO 03/015519 and WO 05/118552. Anthranilamide derivatives of formula M^{24.1} have been described in WO 01/70671, WO 04/067528 and WO 05/118552. Cyflumetofen and its preparation have been described in WO 04/080180. The aminoquinazolinone compound pyrifluquinazon has been described in EP A 109 7932. The alkynylether compounds M^{22.1} and M^{22.2} are described e.g. in JP 2006131529. Organic sulfur compounds have been described in WO 2007060839. The malononitrile compounds have been described in WO 02/089579, WO 02/090320, WO 02/090321, WO 04/006677, WO 05/068423, WO 05/068432 and WO 05/063694.

The pesticide that can be used according to this aspect of the invention may be selected from fungicides, herbicides and insecticides. Also maneb is a suitable pesticide. Particularly, the pesticide is selected from the active ingredient (B) and preferred the active ingredients (B) as indicated above.

Thus, it was surprisingly found within the framework of the present invention that the combination of chemical agents, e.g. at least one active ingredient, and at least one transgenic modification, which does not confer a resistance against the active ingredient, leads to a synergistic effect, i.e. the effectiveness of the combination is higher compared to the use of the individual components. Thereby, synergistic effects conferring plant productivity enhancement and/or plant health enhancement and/or pest control can be obtained.

Consequently, according to another aspect, the present invention provides the use of a composition as defined according to the present invention for increasing the health, the productivity, the yield and/or improving the vigor of a transgenic plant of the invention, preferably an agricultural transgenic plant.

The present invention further provides a method for increasing productivity of a transgenic plant, which comprises treating the location where the plant is growing or is ex-

pected to grow, and/or the seeds from which the plant grows with an effective amount of the active ingredient (B) as defined herein.

According to a further embodiment, the present invention provides a method for increasing the productivity of a transgenic plant, which comprises treating the plant, the
5 location where the plant is growing or is expected to grow, and/or the seeds from which the plant grows with an effective amount of the active ingredient (B) as defined herein.

According to the present invention, "increased yield" of an agricultural plant means that the yield of a product of the respective plant is increased by a measurable
10 amount over the yield of the same product of the plant produced under the same conditions, but without the application of the present invention. According to the present invention, it is preferred that the yield be increased by at least 0,5 %, more preferred at least 1 %, even more preferred at least 2 %, still more preferred at least 4 %, preferably 5% or even more.

15 According to the present invention, "improved plant vigor" means that certain crop characteristics are increased or improved by a measurable or noticeable amount over the same factor of the plant produced under the same conditions, but without the application of the present invention, such as: delay of senescence, root growth, longer
20 panicles, increased or improved plant stand, the plant weight, plant height, emergence, improved visual appearance, improved protein content, more developed root system, tillering increase, increase in plant height, bigger leaf blade, less dead basal leaves, stronger tillers, greener leaf color, pigment content, photosynthetic activity, less fertilizers needed, less seeds needed, more productive tillers, earlier flowering,
25 improved germination, improved vitality of the plant, improved quality of the plant, improved quality of the fruits or vegetables (or other products produced by the plant), improved self defence mechanism of the plant such as induced tolerance against fungi, bacteria, viruses and/or insects.

The improvement of the plant vigor according to the present invention particularly
30 means that the improvement of any one or several or all of the above mentioned plant characteristics are improved independently of the pesticidal action of the composition or active ingredients.

According to one embodiment of the present invention, the inventive compositions are used for yield increase of an agricultural transgenic plant.

35 According to a further embodiment of the present invention, the inventive compositions are used for stimulating the natural defensive reactions of a plant against a pathogen and/or a pest. Thereby, the plant can be protected against unwanted microorganisms such as phytopathogenic fungi, bacteria, viruses and insects and it has

been found that the inventive compositions result in plant strengthening effects. Therefore, they are useful for mobilizing the plant's defense mechanisms against the attack of unwanted microorganisms. Consequently, the plant becomes tolerant or resistant towards these microorganisms. Unwanted microorganisms in this context are
5 phytopathogenic fungi and/or bacteria and/or viruses and/or insects, preferably phytopathogenic fungi, bacteria and/or viruses, wherein, according to the present invention, the treated plant may develop increased defense mechanism against one of these pathogens/pests or against two, three or all of these pathogens/pests.

10 According to one embodiment of the described methods of the invention the treatment is made to transgenic vegetables and transgenic field crops. According to a further embodiment of the described methods of the invention the treatment is made to transgenic cereals such as for example wheat, barley or rye. In one specific embodiment, the method of the invention can be applied to transgenic field crops, such as soybeans, corn, cotton, wheat, barley, rye, rice, sugar beets, sugar cane, sunflower
15 and/or oilseed rape/canola, in particular soybeans, corn, cotton, sugar cane, oilseed rape/canola, tobacco, common beans, wheat, barley, rye, peas, and others. In relation to these crops the method is preferably applied by treating the seeds or the plants. In this embodiment it may be preferred that the plants are treated with two to three applications per season.

20 According to another embodiment of the described methods of the invention the treatment is made to transgenic potatoes, tomatoes, cucurbits, cucumbers, melons, watermelons, garlic, onions, bananas, peanuts, carrots, cabbage, peppers, common beans, peas, lentils and/or lettuce, in particular potatoes, tomatoes, cucurbits, cucumbers, melons, watermelons, garlic, onions, and/or lettuce.

25 According to another embodiment of the described methods of the invention the treatment is made to transgenic apples, pears, stone fruits, or citrus, in particular apples, stone fruits, citrus, pines, snip grass.

30 According to another embodiment of the described methods of the invention, the treatment is made to transgenic strawberries, cherries, almonds, mango, papaya, blueberries and/or grapes in particular strawberries and/or cherries.

According to another embodiment of the described methods of the invention, the treatment is made to transgenic turf and/or ornamentals.

According to another embodiment of the described methods of the invention, the treatment is made to transgenic tea, tobacco and/or coffee.

35 According to one embodiment of the described methods of the invention, two to ten, three to eight or four to six treatments with the compounds are made during a season.

According to one embodiment of the invention, the inventive composition is applied via the leaves or to the soil. According to another embodiment of the described methods of the invention, the treatment(s) are carried out as foliar application. In one preferred embodiment of the present invention the method according to the invention is carried out as foliar application or spray application, respectively. Preferably, one, two, three, four, five and up to ten applications during one season are carried out, specifically more than two applications, and up to 10 applications. Also preferred more than two applications, and up to 5 applications during a season are carried out.

The inventive compositions are also suitable for dressing applications on plant propagation material. The latter term embraces seeds of all kinds (fruit, tubers, grains), cuttings, cut shoots and the like. One particular field of application is the treatment of all kinds of seeds.

The method according to the invention is preferably carried out as foliar application when applied to transgenic fruit and vegetables, such as potatoes, tomatoes, cucurbits, preferably cucumbers, melons, watermelons, garlic, onions, and lettuce. Preferably more than two applications and up to 5 or up to 10 applications during a season are carried out.

The application rates are usually between 0.01 and 2.0 kg, preferably up to 1.0 kg of active ingredient per hectare.

In one embodiment the application rates are usually between 0.0001 and 2.0 kg, preferably between 0.0001 and 1.0 kg of active ingredient per hectare.

According to a further aspect, the present invention relates to seed, comprising one of the inventive compositions as defined herein in an amount of from 0.1 g to 1 kg per 100 kg of seeds.

Furthermore, it has been found that the inventive compositions achieve markedly enhanced action against plant pathogens (insects and harmful fungi).

In general, if laminarin is used, it can be preferred to use it in doses of between 0.005 g and 100 g per liter for treating the leaves, and of between 1 g and 100 g per 100 kg for treating the seeds.

The active ingredient mixtures of the invention can be used in the form of premix formulations or the active ingredients can be applied to the area, plant or seed to be treated simultaneously or in immediate succession, if desired together with further carriers, surfactants or other application-promoting adjuvants customarily employed in formulation technology. Besides an effective amount of the active ingredients, the inventive composition can contain an agriculturally acceptable carrier and/or vehicle. The composition may be in solid form, for example in the form of a powder or granules, or in liquid form, for example in the form of an aqueous solution.

The active ingredients or compositions used according to the present invention can be converted into the formulations conventionally used for pesticides, for example solutions, emulsions, suspensions, dusts, powders, pastes and granules. The use form depends on the particular purpose; in any case, it should ensure fine and uniform distribution of the compound according to the invention.

The present invention furthermore provides a composition as described above with at least one solid or liquid carrier.

Best results are obtained when a formulation is used which supports the transport of the active compounds into the plants, and the distribution within the entire plant.

The compositions generally comprise between 0.1 and 95%, preferably between 0.5 and 90%, by weight of active ingredient.

When employed in plant protection, the amounts applied are, depending on the kind of effect desired, between 0.01 and 2.0 kg, preferably between 0.1 and 1 kg of active ingredient per ha.

In one embodiment the application the amounts applied are, depending on the kind of effect desired, between 0.0001 and 2.0 kg, preferably between 0.1 and 1kg of active ingredient per ha.

Seed can be treated by methods known to the person skilled in the art, such as, for example, seed dressing, seed coating, seed dusting, seed soaking and seed pelleting.

In the treatment of seed, the amounts of active ingredient employed are generally from 1 to 1000 g/100 kg of seed, preferably from 1 to 200 g/100 kg, in particular from 1 to 100 g/100 kg.

When used in the protection of materials or stored products, the amount of active ingredient applied depends on the kind of application area and on the desired effect. Amounts customarily applied in the protection of materials are, for example, 0.001 g to 2 kg, preferably 0.005 g to 1 kg, of active compound per cubic meter of treated material.

The formulations are prepared in a known manner, for example by extending the active compound with solvents and/or carriers, if desired using emulsifiers and dispersants. Solvents/auxiliaries which are suitable are essentially:

- water, aromatic solvents (for example Solvesso products, xylene), paraffins (for example mineral oil fractions), alcohols (for example methanol, butanol, pentanol, benzyl alcohol), ketones (for example cyclohexanone, gamma-butyrolactone), pyrrolidones (NMP, NOP), acetates (glycol diacetate), glycols,

fatty acid dimethylamides, fatty acids and fatty acid esters. In principle, solvent mixtures may also be used,

- carriers such as ground natural minerals (for example kaolins, clays, talc, chalk) and ground synthetic minerals (for example finely divided silica, silicates); emulsifiers such as nonionic and anionic emulsifiers (for example polyoxyethylene fatty alcohol ethers, alkylsulfonates and arylsulfonates) and dispersants such as liginosulfite waste liquors and methylcellulose.

Suitable surfactants are alkali metal, alkaline earth metal and ammonium salts of liginosulfonic acid, naphthalenesulfonic acid, phenolsulfonic acid, dibutyl-naphthalene-sulfonic acid, alkylarylsulfonates, alkyl sulfates, alkylsulfonates, fatty alcohol sulfates, fatty acids and sulfated fatty alcohol glycol ethers, furthermore condensates of sulfonated naphthalene and naphthalene derivatives with formaldehyde, condensates of naphthalene or of naphthalenesulfonic acid with phenol and formaldehyde, polyoxyethylene octylphenol ether, ethoxylated isooctylphenol, octylphenol, nonylphenol, alkylphenol polyglycol ethers, tributylphenyl polyglycol ether, tristearyl-phenyl polyglycol ether, alkylaryl polyether alcohols, alcohol and fatty alcohol/ethylene oxide condensates, ethoxylated castor oil, polyoxyethylene alkyl ethers, ethoxylated polyoxypropylene, lauryl alcohol polyglycol ether acetal, sorbitol esters, liginosulfite waste liquors and methylcellulose.

Suitable for the preparation of directly sprayable solutions, emulsions, pastes or oil dispersions are mineral oil fractions of medium to high boiling point, such as kerosene or diesel oil, furthermore coal tar oils and oils of vegetable or animal origin, aliphatic, cyclic and aromatic hydrocarbons, for example toluene, xylene, paraffin, tetrahydronaphthalene, alkylated naphthalenes or their derivatives, methanol, ethanol, propanol, butanol, cyclohexanol, cyclohexanone, isophorone, strongly polar solvents, for example dimethyl sulfoxide, N-methylpyrrolidone and water.

Powders, materials for spreading and dustable products can be prepared by mixing or concomitantly grinding the active substances with a solid carrier.

Granules, for example coated granules, impregnated granules and homogeneous granules, can be prepared by binding the active compounds to solid carriers. Examples of solid carriers are mineral earths such as silica gels, silicates, talc, kaolin, attaclay, limestone, lime, chalk, bole, loess, clay, dolomite, diatomaceous earth, calcium sulfate, magnesium sulfate, magnesium oxide, ground synthetic materials, fertilizers, such as, for example, ammonium sulfate, ammonium phosphate, ammonium nitrate, ureas, and products of vegetable origin, such as cereal meal, tree bark meal, wood meal and nutshell meal, cellulose powders and other solid carriers.

Formulations for seed treatment may further comprise binders and/or gelants and if appropriate dyes.

Binders can be added to increase the adhesion of the active compounds to the seed after the treatment. Suitable binders are for example EO/PO block copolymer surfactants, but also polyvinyl alcohols, polyvinylpyrrolidones, polyacrylates, polymethacrylates, polybutenes, polyisobutylenes, polystyrenes, polyethyleneamines, polyethyleneamides, polyethyleneimines (Lupasol®, Polymin®), polyethers, polyurethanes, polyvinyl acetates, Tylose and copolymers of these polymers. A suitable gelant is for example carrageen (Satiagel®).

In general, the formulations comprise from 0.01 to 95% by weight, preferably from 0.1 to 90% by weight, of the active compound. The active compounds are employed in a purity of from 90% to 100%, preferably 95% to 100% (according to NMR spectrum).

The concentrations of active compound in the ready-to-use preparations can be varied within relatively wide ranges. In general, they are between 0.0001 and 10%, preferably between 0.01 and 1%.

The active compounds can also be used with great success in the ultra-low-volume (ULV) process, it being possible to apply formulations with more than 95% by weight of active compound or even the active compound without additives.

For the treatment of seed, the formulations in question give, after two-to-tenfold dilution, active compound concentrations of from 0.01 to 60% by weight, preferably from 0.1 to 40% by weight, in the ready-to-use preparations.

The following are examples of formulations according to the invention: Products for dilution with water

A Water-soluble concentrates (SL, LS)

10 parts by weight of active ingredient are dissolved with 90 parts by weight of water or with a water-soluble solvent. As an alternative, wetters or other auxiliaries are added. The active compound dissolves upon dilution with water. This gives a formulation having an active compound content of 10% by weight.

B Dispersible concentrates (DC)

20 parts by weight of active ingredient are dissolved in 70 parts by weight of cyclohexanone with addition of 10 parts by weight of a dispersant, for example polyvinylpyrrolidone. Dilution with water gives a dispersion. The active compound content is 20% by weight.

C Emulsifiable concentrates (EC)

15 parts by weight of active ingredient are dissolved in 75 parts by weight of xylene with addition of calcium dodecylbenzenesulfonate and castor oil ethoxylate (in each case 5 parts by weight). Dilution with water gives an emulsion. The formulation has an active compound content of 15% by weight.

D Emulsions (EW, EO, ES)

25 parts by weight of active ingredient are dissolved in 35 parts by weight of xylene with addition of calcium dodecylbenzenesulfonate and castor oil ethoxylate (in each case 5 parts by weight). This mixture is added to 30 parts by weight of water by
5 means of an emulsifying machine (e.g. Ultraturrax) and made into a homogeneous emulsion. Dilution with water gives an emulsion. The formulation has an active compound content of 25% by weight.

E Suspensions (SC, OD, FS)

10 In an agitated ball mill, 20 parts by weight of active ingredient are comminuted with addition of 10 parts by weight of dispersants and wetters and 70 parts by weight of water or an organic solvent to give a fine active compound suspension. Dilution with water gives a stable suspension of the active compound. The active compound content in the formulation is 20% by weight.

F Water-dispersible granules and water-soluble granules (WG, SG)

15 50 parts by weight of active ingredient are ground finely with addition of 50 parts by weight of dispersants and wetters and made into water-dispersible or water-soluble granules by means of technical appliances (for example extrusion, spray tower, fluidized bed). Dilution with water gives a stable dispersion or solution of the active compound. The formulation has an active compound content of 50% by weight.

20 G Water-dispersible powders and water-soluble powders (WP, SP, SS, WS)

75 parts by weight of active ingredient are ground in a rotor-stator mill with addition of 25 parts by weight of dispersants, wetters and silica gel. Dilution with water gives a stable dispersion or solution of the active compound. The active compound content of the formulation is 75% by weight.

25 Products to be applied undiluted

H Dustable powders (DP, DS)

5 parts by weight of active ingredient are ground finely and mixed intimately with 95 parts by weight of finely divided kaolin. This gives a dustable product with an active
30 compound content of 5% by weight.

I Granules (GR, FG, GG, MG)

0.5 part by weight of active ingredient is ground finely and associated with 99.5 parts by weight of carriers. Current methods are extrusion, spray-drying or the fluidized bed. This gives granules with an active compound content of 0.5% by weight to be applied
35 undiluted.

J ULV solutions (UL)

10 parts by weight of active ingredient are dissolved in 90 parts by weight of an or-

ganic solvent, for example xylene. This gives a product with an active compound content of 10% by weight to be applied undiluted.

Seed treatment typically utilizes water-soluble concentrates (LS), suspensions (FS), dusts (DS), water-dispersible and water-soluble powders (WS, SS), emulsions (ES),
5 emulsifiable concentrates (EC) and gel formulations (GF). These formulations can be applied neat or preferably diluted to the seed. The application can take place prior to sowing.

Preference is given to using FS formulations for seed treatment. Such formulations typically comprise from 1 to 800 g/l of active compound, from 1 to 200 g/l of surfac-
10 tants, from 0 to 200 g/l of antifreeze, from 0 to 400 g/l of binder, from 0 to 200 g/l of dyes and solvent, preferably water.

The active compounds can be used as such, in the form of their formulations or the use forms prepared therefrom, for example in the form of directly sprayable solutions, powders, suspensions or dispersions, emulsions, oil dispersions, pastes, dustable
15 products, materials for spreading, or granules, by means of spraying, atomizing, dusting, spreading or pouring. The use forms depend entirely on the intended purposes; the intention is to ensure in each case the finest possible distribution of the active compounds used according to the invention.

Aqueous use forms can be prepared from emulsion concentrates, pastes or wettable
20 powders (sprayable powders, oil dispersions) by adding water. To prepare emulsions, pastes or oil dispersions, the substances, as such or dissolved in an oil or solvent, can be homogenized in water by means of a wetting agent, tackifier, dispersant or emulsifier. Alternatively, it is also possible to prepare concentrates composed of active substance, wetter, tackifier, dispersant or emulsifier and, if appropriate, solvent or oil,
25 and such concentrates are suitable for dilution with water.

The active compound concentrations in the ready-to-use preparations can be varied within relatively wide ranges. In general, they are from 0.0001 to 10%, preferably from 0.01 to 1%.

If not otherwise specified, the solutions are prepared as follow:

30 The active ingredient is dissolved at the desired concentration in a mixture of 1:1 (vol/vol) distilled water : acteon. The test solution is prepared at the day of use.

Test solutions are prepared in general at concentrations of 1000 ppm, 500 ppm, 300 ppm, 100 ppm and 30 ppm (wt/vol).

The active compounds may also be used successfully in the ultra-low-volume process
35 (ULV), by which it is possible to apply formulations comprising over 95% by weight of active compound, or even to apply the active compound without additives.

Various types of oils, wetters, adjuvants, may be added to the active compounds, if appropriate not until immediately prior to use (tank mix). These agents can be admixed with the agents according to the invention in a weight ratio of 1:100 to 100:1, preferably 1:10 to 10:1.

- 5 Suitable adjuvants in this sense are in particular: organically modified polysiloxanes, for example Break Thru S 240[®]; alcohol alkoxylates, for example Atplus 245[®], Atplus MBA 1303[®], Plurafac LF 300[®] and Lutensol ON 30[®]; EO/PO block polymers, for example Pluronic RPE 2035[®] and Genapol B[®]; alcohol ethoxylates, for example Lutensol XP 80[®]; and sodium dioctylsulfosuccinate, for example Leophen RA[®].
- 10 In one embodiment, the method of the invention is directed to the transgenic plant according to table A, preferably A1 by increasing or generating the activity as depicted in table B, column 5, preferably a polypeptide as depicted in SEQ ID NO:1 to 270, preferably a polypeptide encoded by a nucleic acid molecule as depicted in table B, column 1 or 3 and the active ingredient (B) is selected from the group consisting of
- 15 the groups B1, B2, B3, B4, B5, B6, B7, B8, B9, B10, B11, B12, B13, B14, B15, B16, B17, B18, B19, B20, B21, B22, B23, B24, B25, B26, B27, B28, B29, B30, B31, B32, B33, B34 and B35. The present examples illustrate the basic invention without being intended as limiting the subject of the invention.

20 The content of all of the references, patent applications, patents and published patent applications cited in the present patent application is herewith incorporated by reference.

Examples

Materials and Methods

25 ***Engineering Productivity-Enhanced Corn Plants by Expressing EST163 Genes***

Transformation of maize (*Zea Mays L.*) was performed using the construct NC027 (Figure 1). Immature embryos were co-cultivated with *Agrobacterium tumefaciens* that carry "super binary" vectors, and transgenic plants were recovered through organogenesis (Ishida et al., 1996, Nature Biotech 14745-50). This procedure provided a

30 transformation efficiency of between 2.5% and 20%. The transgenic plants were then screened for improved plant biomass demonstrating that transgene expression confers productivity performance.

Figure 1. Map of the construct NC027 of the gene of interest, EST163. The expression was driven by the promoter, ScBv, and AHAS was chosen as the selectable marker.

5 Agrobacterium cells harboring the genes and the maize ahas gene on the same plasmid were grown in YP medium supplemented with appropriate antibiotics for 1-3 days. A loop of Agrobacterium cells was collected and suspended in 2 ml M-LS-002 medium (LS-inf), and the tube containing Agrobacterium cells was kept on a shaker for 1-3 hrs at 1,200 rpm.

10 Corncobs [genotype J553x (HIIIAXA188)] were harvested at 7-12 days after pollination. The cobs were sterilized in a 20% Clorox solution for 15 min followed by a thorough rinse with sterile water. Immature embryos between 0.8 and 2.0 mm in size were dissected into the tube containing Agrobacterium cells in LS-inf solution.

15 Agro-infection was carried out by keeping the tube horizontally in the laminar hood at room temperature for 30 min. Mixture of the agro infection was poured onto a plate containing the co-cultivation medium (M-LS-011). After the liquid agro-solution was piped out, the embryos were plated on the co-cultivation medium with scutellum side up and cultured in the dark at 22C for 2-4 days.

20 Embryos were transferred to M-MS-101 medium without selection. Seven to ten days later, the embryos were transferred to M-LS-401 medium containing 0.75 μ M imazethapyr where they were grown for 4 weeks to select for transformed callus cells.

Plant regeneration was initiated by transferring resistant calli to M-LS-504 medium supplemented with 0.75 μ M imazethapyr and grown under light at 26°C for 2 to 3 weeks. Regenerated shoots were then transferred to a rooting box with M-MS-607 medium (0.5 μ M imazethapyr).

25 Plantlets with roots were transferred to potting mixture and grown in a growth chamber for 1 week, then transplanted to larger pots and maintained in greenhouse until maturity. The seed was harvested, and the presence of the transgene was determined by resistance to imi herbicide or by the Taqman molecular analysis technique.

30 *Seed Treatments*

J553x(HIIIAXA188) null and transgenic corn seeds of the T2 generation were treated with deionized water (Blank), 200 grams fipronil, 10 grams pyraclostrobin (F500), and 200 grams fipronil + 10 grams pyraclostrobin; all formulation rates were grams /100 kg
35 seed. Every formulation was applied to approximately 80 seeds. The formulation was

pipetted into a 125 ml flask along the sides and bottom of the flask before adding the seeds and shaking the flask for 30 seconds. The coated seeds were then removed from the flask and placed in a plastic dish for drying.

5 Plant Management – WUE Study of Plants with the NC027 Construct

Transgene positive and negative corn seedlings for the transformation events, SDM-23881, SDM-23885, SDM-23889, SDM-23890, and SDM-23891 were transplanted into a pot 5-L pots. The pots were covered with lids that permit the seedlings to grow through but minimize water loss. Each pot was weighed periodically and water added
10 to maintain the initial water content (50% full water capacity). At the end of the experiment, the fresh and dry weights of each plant were measured, the water consumed by each plant was determined, and WUE of each plant was computed. Plant growth and physiological traits such as WUE, height, fresh weight, and dry weight
15 were measured during the experiment. A comparison was made for every phenotype between the transgene positive and negative plants.

Plant Management – fipronil/pyraclostrobin Study

Seventy-five 3-L pots per treatment (Blank, fipronil, *pyraclostrobin*, and fipronil + *pyraclostrobin*) were filled with potting media, labeled with colored stakes, and given a
20 unique barcode. One seed per pot was planted at a depth of approximately 2 cm and covered with media. The media was lightly watered to imbibe the seeds, while allowing for ample oxygen exchange and so that the chemical coatings on the seeds remained intact. After planting, the pots were randomly distributed into three replicate blocks (1 bench = 1 block), each with 25 plants of every treatment.

25 The plants were maintained in a greenhouse under optimal, well-watered conditions (80-90% field capacity) upon emergence. Supplemental nutrients were administered every third day during watering. The greenhouse temperature was maintained at 30°C, relative humidity at 75%, and light at 350 $\mu\text{mol m}^{-2}\text{s}^{-1}$, in a 15-hour day / 9-hour night photoperiod. Supplemental lighting was provided using metal-halide lights.
30 Once per week, the pots were randomly mixed within each block.

On day 21, the plants were imaged to collect the phenotypic data as described in the *Imaging Procedures* section. Leaves were sampled for transgene copy number on day 25 to identify the null and transgenic plants. On day 28, the plants were imaged
35 and then harvested to collect fresh weight. The presence of the transgene was determined by the Taqman molecular analysis technique. Differences in the phenotypic

data collected during the imaging process and in fresh weight among the four treatments and between the null and transgenic plants were assessed. The chemical by transgenic interactions were determined.

5 *Imaging Procedures*

Imaging of the plants was facilitated using a LemnaTec Scanalyzer (Würselen, Germany), which includes a conveyor belt, an imaging station, a watering station, and computers for collecting, processing, and storing the image data. The cameras have a resolution of 1280 X 960 pixels and operate in 24-bit color.

10 The plants were manually transferred by block onto the conveyor system of the scanalyzer. Each plant was then moved through the imager automatically. At the imaging station, cameras collected the top view image and two side view images. The side view images were the transverse view and the view parallel with the plane of the plant.

15 As described in the formula (see Appendix A), the scanalyzer calculates plant volume as a number of pixels. To assign a physiologically meaningful value to the volume measurements, a separate experiment was conducted. The plants were scanned with the scanalyzer then harvested. The plant material was placed into a graduated cylinder filled to a known volume with water. The difference between the water plus plant
20 material and water alone provided a known plant volume in mL. The number of LemnaTec calculated volume pixels divided by the number of mL per plant indicated that about 36,000 pixels is equivalent to 1 mL of plant volume.

Using the LemnaTec scanalyzer, we collected stem width; stalk volume; top, transverse, and parallel view plant areas; top, transverse, and parallel view green and yellow pixel counts; stem length; leaf angles and internode lengths through leaf 5; plant
25 width and height; total leaf length; and total plant length.

Results (format of the following text needs to be corrected)

30 ***Testing Enhancement of NC027***

As shown in Table 1, the transgenic plants exhibited significant improvements in fresh weight (FW), dry weight, and plant volume. On average, fresh weight increased 6.5%, dry weight increased 7%, and plant volume increased 10.7%. All three were significant
35 at 95% level of probability according to Analysis of Variance.

Table 1. Average percent change in growth between transgenic plants and their null siblings for 5 NC027 events in two experiments. Asterisks (*) indicate significance at 95%.

Experiment	Event	Lemnatec	Lemnatec	Lemnatec	Measured	Measured
		FW	Plant Vol- ume	Plant Length	FW	Dry Wt
1	SDM-23881	8.5	18.2	-5.7*	6.3	8.1
1	SDM-23885	0.3	-0.2	-10.5*	2.2	2.1
1	SDM-23889	-2.0	-1.3	1.7	1.2	4.0
1	SDM-23890	0.1	9.2	1.3	3.2	3.0
1	SDM-23891	11.8*	8.1	3.5	7.3	8.5*
1	Average	5.2*	10.7*	-2.0	6.5*	7.0*

Testing Enhancement of Chemical Amendments to Transgenic Plants

In an initial trial, the phenotypes that showed treatment by genotype interactions at 95% significance included internode length and green vs. yellow plant material (Tables 2-5). At 80% significance, leaf angle and plant area were also included (Tables 6-7). Fipronil enhanced greenness, internode length, leaf angle, and plant area relative to all other treatments. Other phenotypes showing significance for transgenic and treatment effects included fresh weight, plant and volume, number of fully expanded leaves, stem length, and View 3 size (Tables 8-10).

Table 2. Values for internode length in all treatments, measured in cm.

The single asterisk (*) indicates a significant treatment by genotype effect at 95%. Small letters indicate significant differences between treatments at 95% confidence, and capital letters indicate differences at 99%.

	Internode1*				Internode2				Internode3			
	Null	Trans	Avg	Test	Null	Trans	Avg	Test	Null	Trans	Avg	Test
Blank	34.1	35.0	34.6	a	40.3	36.8	38.5	a	35.4	40.0	37.8	a
F500	32.5	35.9	34.3	ac	36.0	40.4	38.4	ac	38.8	42.1	40.7	ac
Fipronil	35.3	36.6	35.9	ac	45.9	42.5	44.2	BD	42.4	37.7	40.0	ac
Fipronil + F500	33.4	27.6	30.7	BDE	38.1	36.6	37.4	acE	32.6	32.7	32.6	bDE
Average	33.8	33.9	33.9		40.1	39.2	39.7		37.2	38.3	37.8	
Test	a	a			a	a			a	a		

Table 3. Values for yellow, medium green, and dark green pixel counts in all treatments in the parallel view. The single asterisk (*) indicates a significant treatment by genotype effect at 95%. Small letters indicate significant differences between treatments at 95% confidence, and capital letters indicate differences at 99%.

	Yellow Count*				Medium Green Count				Dark Green Count*			
	Null	Trans	Avg	Test	Null	Trans	Avg	Test	Null	Trans	Avg	Test
Blank	1777.7	1956.1	1866.9	A	5648.8	5876.9	5762.8	a	16259.9	15850.4	16055.2	a
F500	2006.6	2088.1	2051.9	A	5691.8	6522.1	6153.1	a	14727.7	15010.4	14884.7	B

Fipronil	1609.1	1806.0	1708.9	Ac	5470.9	5848.7	5662.4	ac	15955.0	16812.3	16389.5	aC
Fipronil + F500	2496.2	3486.3	2970.9	BCD	6605.8	7106.0	6845.6	BCD	13381.2	11886.3	12664.5	BCD
Average	1981.7	2321.1	2154.9		5872.6	6341.2	6111.8		15049.9	14913.7	14980.4	
Test	a	b			a	b			a	a		

- 5 Table 4. Values for yellow and medium green pixels counts in all treatments in the transverse view. Small letters indicate significant differences between treatments at 95% confidence, and capital letters indicate differences at 99%.

	Medium Green Count				Yellow Count			
	Null	Trans	Avg	Test	Null	Trans	Avg	Test
Blank	8861.5	9198.8	9030.2	a	3625.4	3837.4	3731.4	a
F500	9303.7	9809.2	9584.5	bc	4081.7	4343.5	4227.2	b
Fipronil	9132.8	9046.4	9089.0	ade	3268.7	3455.9	3363.6	aC
Fipronil + F500	9591.0	9251.6	9428.3	ace	4959.3	5865.9	5394.0	BCD
Average	9230.4	9340.1	9286.4		4000.0	4365.7	4186.7	
Test	a	a			a	b		

10

- 15 Table 5. Values for medium green pixels counts in all treatments in the top view. Small letters indicate significant differences between treatments at 95% confidence, and capital letters indicate differences at 99%.

	Medium Green Count			
	Null	Trans	Avg	Test
Blank	17563	17866	17715	a
F500	17893	19062	18542	a
Fipronil	17038	17881	17465	ac
Fipronil + F500	19152	19720	19424	Bd
Average	17935	18642	18296	
Test	a	a		

- 20 Table 6. Values for leaf angle in all treatments, measured in degrees. This phenotype was significant at 80% confidence. Small letters indicate significant differences between treatments at 95% confidence, and capital letters indicate differences at 99%.

25

	Leaf Angle 0				Leaf Angle 1			
	Null	Trans	Avg	Test	Null	Trans	Avg	Test
Blank	62.7	69.6	66.2	a	51.3	33.6	42.4	a
F500	39.2	52.5	46.6	bc	36.5	38.2	37.4	ab
Fipronil	57.5	68.7	63.2	acd	63.6	54.4	58.9	acd

Fipronil + F500	43.9	36.6	40.5	BcE	47.8	16.8	33.2	abE
Average	50.8	56.9	53.9		50.1	36.2	43.0	
Test	a	a			a	b		

5 Table 7. Values for plant area in the parallel view in all treatments, measured in pixels. This phenotype was significant at 80% confidence. Small letters indicate significant differences between treatments at 95% confidence, and capital letters indicate differences at 99%.

	Plant Area			
	Null	Trans	Avg	Test
Blank	23686.4	23683.3	23684.8	a
F500	22426.2	23620.6	23089.7	a
Fipronil	23035.0	24467.0	23760.8	ac
Fipronil + F500	22483.1	22478.7	22481.0	Bd
Average	22904.2	23576.0	23247.1	
Test	a	b		

10 Table 8. Values for whole plant phenotypes in all treatments. Fresh weight was hand-collected and measured in grams. Plant height was LemnaTec calculated and measured in cm. Plant volume was measured in pixels. Small letters indicate significant differences between treatments at 95% confidence, and capital letters indicate differences at 99%.

	Fresh Weight				Plant Height				Plant Volume			
	Null	Trans	Avg	Test	Null	Trans	Avg	Test	Null	Trans	Avg	Test
Blank	162.9	155.2	159.0	a	477.4	479.4	478.4	a	6.58E+06	6.60E+06	6.59E+06	a
F500	155.7	155.0	155.3	ac	469.9	481.7	476.5	a	6.18E+06	6.63E+06	6.43E+06	a
Fipronil	160.9	164.7	162.8	ace	478.7	486.1	482.5	a	6.53E+06	6.86E+06	6.70E+06	ac
Fipronil + F500	144.0	152.8	148.2	BdF	478.3	481.1	479.7	a	6.19E+06	6.10E+06	6.15E+06	BD
Average	155.6	157.0	156.3		476.3	482.2	479.3		6.37E+06	6.55E+06	6.46E+06	
Test	a	a			a	b			a	a		

20 Table 9. Values for leaf number and stem length in all treatments. Stem length was measured in cm. Small letters indicate significant differences between treatments at 95% confidence, and capital letters indicate differences at 99%.

	# Fully Expanded Leaves				Stem Length			
	Null	Trans	Avg	Test	Null	Trans	Avg	Test
Blank	3.2	3.4	3.3	a	107.3	117.6	112.5	a
F500	2.9	3.1	3.0	a	97.2	110.2	104.4	ac
Fipronil	3.1	3.0	3.0	a	110.4	107.1	108.8	ac
Fipronil + F500	2.9	2.5	2.7	B	86.7	77.4	82.2	BD

Average	3.0	3.0	3.0	100.2	103.3	101.8
Test	a	a		a	a	

Table 10. Values for stalk area from the transverse view. Small letters indicate significant differences between treatments at 95% confidence, and capital letters indicate differences at 99%.

5

	Pixel Count			
	Null	Trans	Avg	Test
Blank	4881	5138	5010	a
F500	4725	4723	4724	ac
Fipronil	5081	4744	4910	ac
Fipronil + F500	4375	4196	4289	BdE
Average	4760	4699	4729	
Test	a	a		

10 Longer internode length may have represented better plant growth. A higher percentage of green pixels per plant area implies that the plant had greater photosynthetic capacity. Similarly, when the preponderance of yellow pixels may have indicated that the plant was experiencing some measure of stress causing chlorosis.

15 Larger leaf angles implies that leaves were laying flatter and thus received more photosynthetic radiation, and larger plant area suggests that there was more leaf surface area for photosynthesis.

In general, fipronil enhanced fresh mass, plant volume, plant height, and plant width as well.

20 The effect of chemical amendments was enhanced when applied to transgenic plants indicating a significant chemical by transgene interaction, as exemplified by the effects on internode length and changes in leaf angle.

Variable	Interaction	SS	MS	FValue	ProbF
Internode	treatment*Copy_Call	1805.79	601.9298	3.56	0.0142
Sideview-yellow	treatment*Copy_Call	13579567	4526522	2.81	0.0389
Sideview-darkgreen_	treatment*Copy_Call	96292593	32097531	2.6	0.0516

25 In a second trial, the phenotypes that showed treatment by genotype interactions at 95% significance included plant volume, calculated fresh weight, side plant area, and dark green pixel count (Table 11). Plant volume and dark green pixel count were significant at 99% for the pyraclostrobin treatment. In

general, pyraclostrobin enhanced plant size and photosynthetic health. The effect of chemical amendments was enhanced when applied to transgenic plants indicating a significant chemical by transgene interaction.

Increases in plant volume, fresh weight, and plant area show an enhancement of plant growth. A higher percentage of green pixels per plant area may imply increased photosynthetic capacity. Similarly, a preponderance of yellow pixels indicates some measure of stress, causing chlorosis.

A larger plant area suggests that more leaf surface area is available for photosynthesis.

Results from both days 21 and 28 followed the same trends.

Table 11. Values for plant volume, fresh weight, and plant greenness. Small letters indicate significant differences between treatments at 95% confidence, and capital letters indicate differences at 99%.

15

Treatment	Plant Volume (M pixels)				CalcFreshWeight (g)				Broad Side Plnt Area (pixels)			
	Null	Trans	Avg	Test	Null	Trans	Avg	Test	Null	Trans	Avg	Test
Blank	7.28	9.43	8.36	a	83.28	101.45	92.37	a	29782.18	34714.96	32248.57	a
Control	8.42	8.65	8.53	ac	99.33	94.37	96.85	ac	32106.05	31843.49	31974.77	ac
F500	9.90	11.04	10.47	Bde	100.53	110.41	105.47	bcd	36740.30	39599.17	38169.74	bde
Fip + F500	9.56	9.94	9.75	acef	99.33	105.42	102.38	acde	37117.46	37053.24	37085.35	adef
Fipronil	8.89	9.50	9.19	acef	99.88	101.65	100.77	acde	36398.18	34428.06	35413.12	acef
Average	8.82	9.68	9.25		96.22	102.41	99.31		34443.87	35397.68	34920.78	
Test	a	a			a	a			a	a		

Treatment	Top Drk Grn (pixels)				Broad Side Drk Grn (pixels)				Narrow Side Drk Grn (pix)			
	Null	Trans	Avg	Test	Null	Trans	Avg	Test	Null	Trans	Avg	Test
Blank	50193.33	55954.94	53075.14	a	20741.88	23051.09	21896.48	a	21893.48	25317.00	23460.24	a
Control	58874.73	56391.61	57633.17	ac	22733.68	21788.39	22261.04	ac	26482.95	25010.75	25746.85	ac
F500	57676.78	62307.07	59991.92	Bcd	26088.87	27881.04	26984.96	Bde	26394.93	28392.28	27393.61	bcd
Fip + F500	56384.17	56031.02	56207.60	acde	26769.63	26003.90	26386.77	bdef	26203.26	27419.26	26811.26	acde
Fipronil	56608.71	57655.69	57132.20	acde	26176.97	23958.33	25067.65	acef	24703.55	27235.14	25969.34	acde
Average	55800.19	57661.27	56730.73		24512.31	24435.34	24473.82		25053.73	26633.30	25843.52	
Test	a	a			a	a			a	a		

Variable	Interaction	SS	MS	FValue	ProbF
Internode	treatment*Copy_Call	1805.79	601.9298	3.56	0.0142
Sideview-yellow	treatment*Copy_Call	13579567	4526522	2.81	0.0389
Sideview-darkgreen_	treatment*Copy_Call	96292593	32097531	2.6	0.0516

Conclusions

20

Chemical amendments enhance plant performance of transgenic and non-transgenic plants through manipulation of whole plant architecture and size, leaf color, and leaf morphology, among others. Administering combinations of chemical amendments carefully with transgenic plants may stimulate an even greater effect. The benefits will include greater plant performance in stress conditions, whether biotic or abiotic in nature, leading to increased yield and economic benefit.

Appendix A

Dry Weight – A measurement of the dry weight of the plant in grams. After harvest, the plants are placed into a drying oven set at 65°C, dried for a minimum of 72 hours, then weighed.

Fresh Weight – A measurement of the fresh weight of the plant in grams. Hand-collected fresh weight is measured by harvesting the plant and weighing it on a balance. LemnaTec fresh weight is calculated by the scanalyzer based on plant volume and plant age. The zoom angles of the camera lenses are normalized using a calibration table.

Internode length – Internode length is measured from leaf collar to leaf collar up the stem. Internode 1, for example, is measured from Leaf 0 to Leaf 1. Reported in cm.

Leaf Angle – A measurement of the angle of the leaf. The vectors for the angle are from the base of the leaf horizontally to the leaf tip and vertically up the plant stalk. The measured angle is from the stalk above the leaf to the leaf tip, reported in degrees.

Number of Fully Expanded Leaves – A count of the number of leaves with a recognizable leaf collar.

Parallel View Plant Area – A count of the total number of pixels of the plant as imaged from the parallel side.

Parallel View Dark Green Pixels – A count of the total number of user-defined dark green pixels as imaged from the parallel side. Indicates photosynthetic health of the plant.

Parallel View Medium Green Pixels – A count of the total number of user-defined dark green pixels as imaged from the parallel side. Indicates initial onset of chlorosis in the plant.

Parallel View Yellow Pixels – A count of the total number of user-defined yellow pixels as imaged from the parallel side. Indicates chlorosis in the plant.

Plant Height – A measurement from the base of the stem to the collar of the last fully expanded leaf, reported in cm.

Plant Volume – Calculated from the pixel counts of the three images and reported in pixels according to the formula:

$$5 \quad \text{Volume} = (\text{top view} \times \text{transverse view} \times \text{parallel view pixels})^{0.5}$$

Plant Width – A measurement of the breadth of the plant from left-most leaf tip to right-most leaf tip.

10 Stalk Volume – Measured from the base of the plant to the last expanded leaf. Incorporates the pixel counts from the transverse and parallel view images, reported in pixels.

Stem Length – A measurement of the stem length from the base of the plant to the last fully expanded leaf, reported in cm.

Stem Width – A measurement of the stem at the base of the plant in the transverse view, reported in mm.

15 Top View Plant Area – A count of the total number of pixels of the plant as imaged from above.

Top View Dark Green Pixels – A count of the total number of user-defined dark green pixels as imaged from above. Indicates photosynthetic health of the plant.

20 Top View Medium Green Pixels – A count of the total number of user-defined dark green pixels as imaged from the parallel side. Indicates initial onset of chlorosis in the plant.

Top View Yellow Pixels – A count of the total number of user-defined yellow pixels as imaged from above. Indicates chlorosis in the plant.

25 Total Leaf Length – A sum of all leaves as measured from the base to the tip of each leaf, reported in cm.

Total Plant Length – A measurement from the base of the stem to the tip of the highest most leaf, reported in cm.

Transverse View Plant Area – A count of the total number of pixels of the plant as imaged from the transverse side.

30 Transverse View Dark Green Pixels – A count of the total number of user-defined dark green pixels as imaged from the transverse side. Indicates photosynthetic health of the plant.

Transverse View Medium Green Pixels – A count of the total number of user-defined dark green pixels as imaged from the parallel side. Indicates initial onset of chlorosis in the plant.

5 Transverse View Yellow Pixels – A count of the total number of user-defined yellow pixels as imaged from the transverse side. Indicates chlorosis in the plant.

Transverse View Stalk Area – A count of the total number of pixels of the stalk from the transverse view.

10 Those of ordinary skill in the art will recognize, or will be able to ascertain using no more than routine experimentation, many equivalents to the specific embodiments of the invention described herein. Such equivalents are intended to be encompassed by the following claims.

Table B

Line/ Column	1	2	3	4	5
	Gene Name/ Locus ID	Publication No	SEQ ID NO. in the resp. publication	Source organism	Gene Annotation/Function/Activity
1.	ATACCD	WO2007 011625	2	Arabidopsis thaliana	ATACCD
2.	ATAGR1	WO2007 011771	2	Arabidopsis thaliana	ATAGR1
3.	ATHLS	WO2007 011681	2,6	Arabidopsis thaliana	N-ACETYL TRANSFERASE PROTEIN FROM ARABIDOPSIS THALIANA
4.	ATSHMT 4	US2006/ 027384	2	Arabidopsis thaliana	GLYCINE HYDROXYMETHYL TRANSFERASE
5.	ATSTE24	WO2002/ 16625	3, 4	Arabidopsis thaliana	ARABIDOPSIS THALIANA PRE-NYLPEPTIDASE
6.	b2699	WO2007 020198	159	E. coli	(0/1061)DNA STRAND EXCHANGE, RENATURATION
7.	b2965	WO2006 069610	797, 9163 6	E. coli	ORNITHINE DECARBOXYLASE
8.	BN45412 825	WO2004/ 092398	517	Brassica napus	RHO1PS HOMOLOG/RAC-LIKE PROTEIN
9.	BN51473 779	WO2004/ 092398		Brassica napus	ASPARTYLAMINO PEPTIDASE
10.	B0730	WO2006/ 069610	3422 9,291 63,24 084,4 465,1 7105, 2261 0,197 85,41 8, 2049	E. coli	TRANSCRIPTION REGULATOR
11.	b1830	WO2004/ 092398	259, 260	E. coli	CARBOXY-TERMINALPROTEASE FOR PENICILLIN-BINDING PROTEIN3

12.	b2664	WO2004/ 092398	263, 264	E. coli	PUTATIVE TRANSCRIPTIONAL REGULATOR
13.	b2082	WO2004/ 092398	253, 254	E. coli	PROPHAGE P2OGR PROTEIN
14.	b2799	WO2004/ 092398	265, 266	E. coli	L-1
15.	b2148	WO2004/ 092398	249, 250	E. coli	METHYL-GALACTOSIDE TRANS- PORT, GALACTOSETAXIS
16.	b2796	WO2004/ 092398	251, 252	E. coli	PROBABLE SERINE TRANSPOR- TER
17.	b3116	WO2006 069610	258	E. coli	ANAEROBICALLY INDUCIBLE L- THREONINE
18.	b0124	WO2004/ 092398	255, 256	E. coli	GLUCOSE DEHYDROGENASE
19.	EST102	US20070 028333	016, 5, 6	Physcomitrella patens	
20.	EST12	US20070 157343	883, 11, 18	Physcomitrella patens	
21.	EST134	US20070 261131	688, 5, 8	Physcomitrella patens	
22.	PpPK_E ST142	US7,176, 026	176, 026, 5, 6		
23.	PpAPS_ EST163	US20070 192908	282, 9, 17	Physcomitrella patens	TRANSCRIPTION FACTOR
24.	PpGBP- 1_EST20 3	US2004/ 0194163	6, 11	Physcomitrella patens	SMALL GTP-BINDING PROTEIN SAR1BNT
25.	EST217	US20070 157344	246, 8, 13	Physcomitrella patens	
26.	EST255	US6,677, 504	677, 504, 10, 18		
27.	EST266	US7,166, 767	166, 767, 6, 11		
28.	EST268	WO2006 133983	8, 477, 7, 12		
29.	PpCK- 3_EST28 9	WO2006 020717	105, 723, 11, 12		
30.	EST293	US20070 157334	902, 20,	Physcomitrella patens	

			33		
31.	EST295	WO2003 040171	12	Physcomitrella- patens	LEUCINE-RICH REPEAT TRANS- MEMBRANE PROTEIN KINASE1
32.	PpZF_ES T307	US2004/ 0107463	12, 20	Physcomitrella patens	ZINC-FINGERPROTEIN
33.	EST335	US2004/ 0128721	5, 8	Physcomitrella patens	PUTATIVE CDC21 PROTEIN
34.	PpSCL_E ST386	WO2006/ 044912	1, 2	Physcomitrella patens	SCARE CROW-LIKE TRAN- SCRIPTION FACTOR 14(SCL14)
35.	PpCBF_ EST39	US7,164, 057	164, 057, 10, 17		
36.	EST391	US20070 079400	646, 129, 130	Physcomitrella patens	
37.	EST4	US7,091, 402	091, 402, 2, 3		
38.	pPP2A- 4_EST43 0	WO2002 46442	8, 13	Physcomitrella patens	TYPE 2A PROTEIN PHOSPHA- TASE-1
39.	EST443	US20070 157345	353, 8, 9	Physcomitrella patens	
40.	EST46	US7,125, 719	125, 719, 5, 6		
41.	EST472	US20040 148658	750, 1, 2	Physcomitrella patens	
42.	EST512	WO2006/ 044912	5, 6	Physcomitrella patens	PHYTOCHROME ASIGNAL TRANSDUCTION1(PAT1)
43.	PpVTP_E ST513	WO2006/ 050038	1, 2	Physcomitrella patens	RAB1C
44.	PpLLPK_ EST557	WO2006 134162	2.	Physcomitrella patens	PUTATIVE LECTIN-LIKE PRO- TEIN KINASE
45.	EST65	US2003/ 0172408	11, 12	Physcomitrella patens	TRANSCRIPTIONAL REGULATOR
46.	GM52570 278	WO2006 032708	968	Glycine max	VESICLE TRANSPORT V-SNARE PROTEIN
47.	GM59556 757	WO2006/ 044912	7, 8	Glycine max	(124/2079)SCARE CROW-LIKE TRANSCRIPTION FAC- TOR8(SCL8)
48.	GM59587 863	WO2006 032708	834	Glycine max	PUTATIVE PROTEINKINASE
49.	GM59594 319	WO2003 020914	18,20 ,22	Glycine max	(186/1106)TYPE2APROTEINPHO SPHATASE-1

50.	GM59629 961	WO2006 032708	914	Glycine max	PUTATIVE CASEINKINASEI
51.	At3g2457 0	WO2004 074440	2	Arabidopsis thaliana	ARABIDOPSIS THALIANA AT3G24570 PROTEIN
52.	YDR071 C	WO2004/ 092398	289, 290	Saccharomyces cerevisiae	POLYAMINE ACETYL TRANSFE- RASE
53.	YGL239c	WO2004/ 092398	7, 8	Saccharomyces cerevisiae	HYPOTHETICAL PROTEIN
54.	YBR288C	WO2004/ 092398	59, 60	Saccharomyces cerevisiae	MU3-LIKE SUBUNIT OF THE CLATHRIN ASSOCIATED PRO- TEIN COMPLEX(AP-3)
55.	YBR258C	WO2004/ 092398	61, 62	Saccharomyces cerevisiae	SUBUNIT OF THE COM- PASS(SET1C)COMPLEX
56.	YCL001w -a	US2004/ 011888	63, 64	Saccharomyces cerevisiae	DOM34 PROTEIN HOMOLOG
57.	YBR274w	WO2004/ 092398	65, 66	Saccharomyces cerevisiae	DNA DAMAGE CHECKPOINT EF- FECTORKINASE
58.	YCL027w	WO2004/ 092398	273, 274	Saccharomyces cerevisiae	CELL FUSION PROTEIN
59.	YBL060w	WO2004/ 092398	9, 10	Saccharomyces cerevisiae	HYPOTHETICAL PROTEIN
60.	YHR090c	WO2004/ 092398	67, 68	Saccharomyces cerevisiae	SUBUNIT OF THE NUA4 HIS- TONE ACETYLTRANSFERASE COMPLEX THAT ACETYLATES HISTONE H4, H2A; HAS SIMILAR- ITY TO THE HUMAN TUMOR SUPPRESSORING1
61.	YGR121c	WO2004/ 092398	69, 70	Saccharomyces cerevisiae	AMMONIUM TRANSPOR TPRO- TEINMEP1
62.	YGR127 w	WO2004/ 092398	71, 72	Saccharomyces cerevisiae	HYPOTHETICAL PROTEIN
63.	YGR161c	WO2004/ 092398	287, 288	Saccharomyces cerevisiae	PROTEIN PHOSPHATASE TY- PE2A
64.	YKL051w	WO2004/ 092398	77, 78	Saccharomyces cerevisiae	PLASMA MEMBRANE PROTEIN THAT MAY ACT TO GET HER WITH OR UPSTREAM OF STT4P TO GENERATE NORMAL LEVEL SOFTHE ESSENTIAL PHOS- PHOLIPID PI4P
65.	YKL103C	WO2004/ 092398	283, 284	Saccharomy ces cerevisiae	AMINOPEPTIDASE YSCI
66.	YKL017c	WO2004/ 092398	83, 84	Saccharomyces cerevisiae	DNA HELICASE1; HCS1P
67.	YKL132c	WO2004/ 092398	87, 88	Saccharomyces cerevisiae	SIMILAR TO FOLYL- POLYGLUTAMATE SYNTHASE RMA1P
68.	YGR126	WO2004/ 092398	89,	Saccharomyces	PUTATIVE PROTEIN OF UN-

	w	092398	90	cerevisiae	KNOWN FUNCTION
69.	YKL058w	WO2004/ 092398	93, 94	Saccharomyces cerevisiae	TOA2TFIIA SUBUNIT (TRAN- SCRIPTION INITIATION FACTOR)
70.	YIL023c	WO2004/ 092398	243, 244	Saccharomyces cerevisiae	YEAST KE4
71.	YHR195 w	WO2004/ 092398	99, 100	Saccharomyces cerevisiae	NUCLEAR ENVELOPEP ROTEIN THAT INTERACTS WITH THE VACUOLAR MEMBRANE PRO- TEIN VAC8P TO PROMOTE FORMATION OF NUCLEUS- VACUOLE JUNCTIONS DURING PIECEMEAL MICRO AUTO- PHAGY OF THE NUCLEUS
72.	YIR022w	WO2004/ 092398	101, 102	Saccharomyces cerevisiae	SIGNAL PEPTIDASE SUBUNIT SEC11P
73.	YJL172w	WO2004/ 092398	105, 106	Saccharomyces cerevisiae	VACUOLAR CARBOXYPEPTIDA- SE YSCS
74.	YHR113 W	WO2004/ 092398	107, 108	Saccharomyces cerevisiae	CYTOPLASMIC ASPARTYLAMI- NOPEPTIDASE]
75.	YGR141 w	WO2006 032708	84	Saccharomyces cerevisiae	VACUOLAR PROTEIN SORTING (VPS) PROTEIN REQUIRED FOR CYTOPLASM TO VACUOLE TARGETING OF PROTEINS
76.	YHR175 w	WO2004/ 092398	109, 110	Saccharomyces cerevisiae	PUTATIVE LOW-AFFINITY COP- PER TRANSPORTER OF THE VACUOLAR MEMBRANE
77.	YGR212 w	WO2004/ 092398	111, 112	Saccharomyces cerevisiae	N-ACETYLTRANSFERASE
78.	YGR180c	WO2004/ 092398	115, 116	Saccharomyces cerevisiae	RNR4 RIBONUCLEOTIDE RE- DUCTASE
79.	YJL179W	WO2004/ 092398	117, 118	Saccharomyces cerevisiae	PREFOLDIN SUBUNIT1; PUTA- TIVE HOMOLOG OF SUBUNIT 1 OF BOVINE PREFOLDIN
80.	YJL001W	WO2004/ 092398	119, 120	Saccharomyces cerevisiae	20S PROTEASOME BETA-TYPE SUBUNIT
81.	YJL208c	WO2004/ 092398	121, 122	Saccharomyces cerevisiae	NUC1_YEAST MITOCHONDRIAL NUCLEASE
82.	YJL152W	WO2004/ 092398	123, 124	Saccharomyces cerevisiae	HYPOTHETICAL PROTEIN
83.	YGL166w	WO2004/ 092398	11, 12	Saccharomyces cerevisiae	CUP2 COPPER-DEPENDENT TRANSCRIPTION FACTOR
84.	YJL151c	WO2004/ 092398	127, 128	Saccharomyces cerevisiae	SNA3 INTEGRAL MEMBRANE PROTEIN LOCALIZED TO VACUOLAR INTRALUMENAL VESICLE
85.	YLR441c	WO2004/ 092398	129, 130	Saccharomyces	RPS1A RIBOSOMAL PROTEIN S3A.E

86.	YLR029C	WO2004/ 092398	135, 136	Saccharomyces cerevisiae	PROTEIN COMPONENT OF THE LARGE(60S) RIBOSOMAL SUB- UNIT
87.	YFR042 W	WO2004/ 092398	279, 280	Saccharomyces cerevisiae	PUTATIVE PROTEIN OF UN- KNOWN FUNCTION
88.	YLR210w	WO2006 032708		Saccharomyces cerevisiae	B-TYPE CYCLIN INVOLVED IN CELLCYCLE PROGRESSION
89.	YLR173w	WO2006 032708		Saccharomyces cerevisiae	HYPOTHETICAL PROTEIN
90.	YLL041c	WO2004/ 092398	137, 138	Saccharomyces cerevisiae	IRON-SULFUR PROTEIN SUB- UNIT OF SUCCINATE DEHY- DROGENASE (SDH1P
91.	YKL150w	WO2006 032708		Saccharomyces cerevisiae	MCR1 CYTOCHROME-B5 RE- DUCTASE
92.	YLR105c	WO2004/ 092398	139, 140	Saccharomyces cerevisiae	SUBUNIT OF THE TRNASPLIC- ING ENDONUCLEASE
93.	YIL136w	WO2004/ 092398	141, 142	Saccharomyces cerevisiae	OM45 PROTEIN OF THE OUTER MITOCHONDRIAL MEMBRANE
94.	YLR224 W	WO2004/ 092398	223, 224	Saccharomyces cerevisiae	F-BOX PROTEIN, COMPONENT OF SCF UBIQUITIN LIGASECOM- PLEXES INVOLVED INUBIQUIT IN DEPENDENT PROTEINCATABO- LISM; READILY MONO UBIQUITIN ATED INVITRO BY SCF-UBC4 COMPLEXES
95.	YGL106 W	WO2004/ 092398	239, 240	Saccharomyces cerevisiae	ESSENTIAL LIGHT CHAINFOR- MYOSIN MYO2P; MAY STABILIZE MYO2P BY BINDING TO THE NECK REGION; MAY INTERACT WITH MYO1P
96.	YLR215c	WO2004/ 092398	143, 144	Saccharomyces cerevisiae	PROTEIN INVOLVED IN NUTRI- TIONAL CONTROL OF THE CELLCYCLE; REGULATES ABUNDANCE OF THE TRANSLA- TION INITIATION FACTOR EIF2; ORTHOLOG OF HUMAN D123 PROTEIN
97.	YLR274w	WO2006 032708		Saccharomyces cerevisiae	COMPONENT OF THE HEXAMERIC MCM COMPLEX
98.	YMR260 C	WO2004/ 092398	147, 148	Saccharomyces cerevisiae	TRANSLATION INITIATION FAC- TOR EIF1A
99.	YNL120C	WO2004/ 092398	149, 150	Saccharomyces cerevisiae	DUBIOUS OPENREADINGFRAME UNLIKELY TO ENCODE A PRO- TEIN
100.	YMR154c	WO2004/ 092398	227, 228	Saccharomyces cerevisiae	CALPAIN-LIKE PROTEASE IN- VOLVED IN PROTEOLYTIC ACTI- VATION OF RIM101P IN RE- SPONSE TO ALKALINE PH

101.	YNL090 W	WO2004/ 092398	285, 286	Saccharomyces cerevisiae	NON-ESSENTIAL SMALL GTPASE OF THE RHO/RAC SUB- FAMILY OF RAS-LIKE PROTEINS
102.	YNL108c	WO2006 032708		Saccharomyces cerevisiae	PROTEIN OF UNKNOWN FUNC- TION LOCALISED TO CYTO- PLASM, NUCLEUS
103.	YNL141w	WO2006 032708		Saccharomyces cerevisiae	AAH1 ADENOSINE DEAMINASE
104.	YLR407 W	WO2004/ 092398	151, 152	Saccharomyces cerevisiae	PUTATIVE PROTEIN OF UN- KNOWN FUNCTION
105.	YNL079C	WO2004/ 092398	277, 278	Saccharomyces cerevisiae	TPM1TROPOMYOSIN1
106.	YMR197c	WO2004/ 092398	154	Saccharomyces cerevisiae	PROTEIN INVOLVED IN CIS- GOLGI MEMBRANE TRAFFIC; V- SNARE THAT INTERACTS WITH WOT-SNARES
107.	YMR100 W	WO2004/ 092398	155, 156	Saccharomyces cerevisiae	PROTEIN OF UNKNOWN FUNC- TION
108.	YMR210 w	WO2004/ 092398	157, 158	Saccharomyces cerevisiae	PUTATIVE ACYLTRANSFERASE WITH SIMILARITY TO EEB1PANDEHT1P
109.	YMR069 w	WO2004/ 092398	161, 162	Saccharomyces cerevisiae	NAT4N-ALPHAACETYL TRANSFERASE (N-TERMINAL RESIDUES OF HISTONE SH4, H2A)
110.	YMR118c	WO2004/ 092398	219, 220	Saccharomyces cerevisiae	PROTEIN OF UNKNOWN FUNC- TION WITH SIMILARITY TO SUC- CINATE DEHYDROGENASE CY- TOCHROME B SUB- UNIT; YMR118C IS NOT AN ES- SENTIAL GENE
111.	YNL076w	WO2004/ 092398	163, 164	Saccharomyces cerevisiae	GI 1301965 EMB CAA95950.1 OR FYNL076W
112.	YNL024c	WO2004/ 092398	165, 166	Saccharomyces cerevisiae	PUTATIVE PROTEIN OF UN- KNOWN FUNCTION WITH SEVEN BETA-STRAND METHYL- TRANSFERASE MOTIF
113.	YNL125c	WO2004/ 092398	167, 168	Saccharomyces cerevisiae	PROTEIN WITH SIMILARITY TO MONOCARBOXYLATE PER- MEASES
114.	YNL029c	WO2004/ 092398	169, 170	Saccharomyces cerevisiae	PUTATIVE MANNOSYL TRANS- FERASE INVOLVED IN PROTE- INGLYCOSYLATION; MEMBER OF THE KRE2/MNT1 MANNO- SYLTRANSFERASE FAMILY
115.	YMR115 w	WO2004/ 092398	171, 172	Saccharomyces cerevisiae	HYPOTHETICAL ORF
116.	YNL282	WO2006	166	Saccharomyces	SUBUNIT OF BOTH RNASE MRP

	W	032708		cerevisiae	
117.	YAL046c	WO2004/ 092398	15, 16	Saccharomyces cerevisiae	HYPOTHETICAL PROTEIN
118.	YNL244c	WO2004/ 092398	173 , 174	Saccharomyces cerevisiae	TRANSLATION INITIATION FAC- TOR EIF1; COMPONENT OF A COMPLEX INVOLVED IN REC- OGNITION OF THE INITIATOR CODON; MODULATES TRANS- LATION ACCURACY AT THE INI- TIATION PHASE
119.	YNL334c	WO2004/ 092398	175 , 176	Saccharomyces cerevisiae	SNO2 PROTEIN IS RELATED WITH B(1)BIOSYNTHESIS DUR- ING THE EXPONENTIAL PHASE
120.	YNR029c	WO2006 032708		Saccharomyces cerevisiae	HYPOTHETICAL PROTEIN
121.	YNR018 w	WO2004/ 092398	177, 178	Saccharomyces cerevisiae	PROTEIN OF UNKNOWN FUNC- TION LOCALISED TO MITO- CHONDRIA
122.	YNL277w	WO2004/ 092398	179, 180	Saccharomyces cerevisiae	L-HOMOSERINE-O- ACETYLTRANSFERASE
123.	YOL118c	WO2004/ 092398	181, 182	Saccharomyces cerevisiae	HYPOTHETICAL PROTEIN
124.	YOL123w	WO2004/ 092398	183, 184	Saccharomyces cerevisiae	SUBUNIT OF CLEAVAGE FAC- TORI
125.	YOR020c	WO2004/ 092398	185, 186	Saccharomyces cerevisiae	10KDA HEAT SHOCK PROTEIN
126.	Y- OR154w	WO2006 032708		Saccharomyces cerevisiae	HYPOTHETICAL PROTEIN
127.	YOL116w	WO2004/ 092398	187, 188	Saccharomyces cerevisiae	TRANSCRIPTIONAL ACTIVATOR
128.	Y- OR266W	WO2006 032708		Saccharomyces cerevisiae	MITOCHONDRIAL INNER MEM- BRANE PROTEIN INVOLVED IN EXPORT OF PROTEINS FROM THE MITOCHONDRIAL MATRIX
129.	YPL103c	WO2006 032708		Saccharomyces cerevisiae	UNCHARACTERIZED ORF
130.		WO2004/ 092398	21, 22	Saccharomyces cerevisiae	HYPOTHETICAL PROTEIN
131.	Y- OR305w	WO2004/ 092398	189, 190	Saccharomyces cerevisiae	PROTEIN OF UNKNOWN FUNC- TION
132.	YKL057c	WO2006 032708		Saccharomyces cerevisiae	SUBUNIT OF THE NUP84P SUB- COMPLEX OF THE NUCLEAR- PORECOMPLEX(NPC)
133.	YDR205 w	WO2004/ 092398	229, 230	Saccharomyces cerevisiae	MEMBER OF THE CATION DIF- FUSION FACILITATOR FAMILY
134.	YPL267w	WO2004/ 092398	191, 192	Saccharomyces cerevisiae	PUTATIVE TRANSCRIPTION FACTOR

135.	YPL229w	WO2004/ 092398	193, 194	Saccharomyces cerevisiae	PUTATIVE P ROTEIN OF UN- KNOWN FUNCTION
136.	YPL038w	WO2004/ 092398	195, 196	Saccharomyces cerevisiae	ZINC-FINGER DNA- BINDING PROTEIN
137.	YPR047w	WO2004/ 092398	197, 198	Saccharomyces cerevisiae	ALPHA SUBUNIT OF YEAST MI- TOCHONDRIAL PHENYL ALANYL- TRNASE; MSF1P
138.	YPR052C	WO2004/ 092398	221, 222	Saccharomyces cerevisiae	HOMOLOGOUS TO MAMMALIA HIGH MOBILITY GROUP PRO- TEINS 1 AND 2; FUNCTIONS RE- DUNDANTLY WITH THE HIGHLY HOMOLOGOUS GENE
139.	YNR008 w	WO2004/ 092398	233, 234	Saccharomyces cerevisiae	ACYLTRANSFERASE THAT CATALYZES DIACYLGLYCEROL ESTERIFICATION
140.	YOL103w	WO2004/ 092398	203, 204	Saccharomyces cerevisiae	MYO-INOSITOL TRANSPORTER WITH STRONG SIMILARITY TO THE MAJOR MYO-INOSITOL TRANSPORTER ITR1P
141.	Y- OR260w	WO2004/ 092398	209, 210	Saccharomyces cerevisiae	GAMMA SUBUNIT OF THE TRANSLATION INITIATION FAC- TORE IF 2B
142.	YOR360c	WO2004/ 092398	211, 212	Saccharomyces cerevisiae	HIGH-AFFINITY CYCLIC AMP PHOSPHODIESTERASE
143.	Y- OR084w	WO2004/ 092398	235, 236	Saccharomyces cerevisiae	PUTATIVE LIPASE OF THE PER- OXISOMAL MATRIX
144.	YPL030w	WO2006 032708		Saccharomyces cerevisiae	HYPOTHETICAL PROTEIN
145.	YGL263 W	WO2004/ 092398	1, 2	Saccharomyces cerevisiae	PUTATIVE MEMBRANE TRAF- FICKING PROTEIN
146.	YDL057w	WO2006 013010	129	Saccharomyces cerevisiae	WEAK SIMILARITY TO HYPO- THETICAL PROTEIN A. THALIANA
147.	YGR054 W	WO2004/ 092398	237, 238	Saccharomyces cerevisiae	EUKARYOTIC INITIATION FAC- TOR (EIF) 2A
148.	YBR064w	WO2004/ 092398	245, 246	Saccharomyces cerevisiae	PROBABLE MEMBRANE PROTE- IN
149.	YAL067C	WO2004/ 092398	241, 242	Saccharomyces cerevisiae	PUTATIVE PERMEASE
150.	YER174c	WO2004/ 092398	33, 34	Saccharomyces cerevisiae	HYDROPEROXIDE, SUPEROX- IDE-RADICAL RESPONSIVE GLUTATHIONE-DEPENDENT OXIDOREDUCTASE; MONOTHIO- LGLUTAREDOXIN SUBFAMILY MEMBER ALONG WITH GRX3P, GRX5P; PROTECTS CELLS FROM OXIDATIVE DAMAGE

151.	YBR051w	WO2004/ 092398	35, 36	Saccharomyces cerevisiae	PROBABLE MEMBRANE PROTEIN
152.	YER175c	WO2004/ 092398	37, 38	Saccharomyces cerevisiae	TRANS-ACONITATE METHYL- TRANSFERASE
153.	YDR521 w	WO2004/ 092398	39, 40	Saccharomyces cerevisiae	HYPOTHETICAL PROTEIN
154.	YER123w	WO2004/ 092398	41	Saccharomyces cerevisiae	CASEIN KINASE I
155.	YER137C	WO2004/ 092398	281, 282	Saccharomyces cerevisiae	HYPOTHETICAL PROTEIN
156.	YEL052w	WO2004/ 092398	47, 48	Saccharomyces cerevisiae	PUTATIVE ATPASE OF THE CDC48/PAS1/SEC18(AAA) FAM- ILY
157.	YDR536 w	WO2004/ 092398	49, 50	Saccharomyces cerevisiae	STL1P: PLASMA MEMBRANE SUGAR TRANSPORTER
158.	YDR513 w	WO2004/ 092398	51, 52	Saccharomyces cerevisiae	TTR1P: GLUTAREDOXIN
159.	YGR060 w	WO2006 032708		Saccharomyces cerevisiae	ERG25C- 4 STEROL METHYLOXIDASE
160.	YEL041w	WO2004/ 092398	55, 56	Saccharomyces cerevisiae	ATP-NADH KINASE; PHOSPHORYLATES BOTH NAD, NADH
161.	YEL001C	WO2006 032708	54	Saccharomyces cerevisiae	PUTATIVE PROTEIN OF UN- KNOWN FUNCTION
162.	YDR415c	WO2004/ 092398	45, 46	Saccharomyces cerevisiae	STRONG SIMILARITY TO BAC- TERIAL LEUCYL AMINOPEPTI- DASE
163.	YDL238c	WO2004/ 092398	57, 58	Saccharomyces cerevisiae	GUANINE DEAMINASE
164.	ROB5	US2006/ 0122375	1, 2	BI	LATE EMBRYOGENESIS ABUN- DANT TYPE PROTEIN ROB5
165.	GOICDS _CDS001 2	WO92/09 685	Claim 3	Arabidopsis thaliana	CYCLIN-DEPENDENT PROTEIN- KINASE
166.	GOICDS _CDS004 5	WO2005/ 024029	4	Arabidopsis thaliana	CYCLIN-DEPENDENT PROTEIN KINASE (CCDC2B2); CELL CYCLE REGULATION NOTE: THIS IS A TRUNCATED PROTEIN
167.	GOICDS _CDS018 5	WO2007 064724	167	Arabidopsis thaliana	PUTATIVE TRANSCRIPTION- FACTOR
168.		WO2005 094562	2	Arabidopsis thaliana	PUTATIVE PP2A INHIBITOR; IN- VOLVED IN NUCLEOSOME AS- SEMBLY
169.		WO2004 038027	Claim 8	Arabidopsis thaliana	CYTOKININ OXIDASE; DEGRA- DATION OF CYTOKININ

170.	GOICDS _CDS064 7	WO2005 083094	2	Arabidopsis thaliana	CYCLIN-DEPENDENT PRO- TEINKINASE; D-TYPE (SER/THRPROTEINKINASE); CELLCYCLE REGULATION
171.		WO2006/ 008271	2	Arabidopsis thaliana	TYROSINEKINASE
172.	GOICDS _CDS149 9_2	WO01/96 580	2,4,6, 8,10, 12,32 or35	Arabidopsis thaliana	CYTOKININOXIDASE; DEGRA- DATION OF CYTOKININ
173.	GOICDS _CDS153 2	WO2006 045829	2	Arabidopsis thaliana	SODIUMTRANSPORTER
174.	GOICDS _CDS332 5	WO2007 064724	199	Arabidopsis thaliana	TRANSCRIPTION FACTOR
175.	GOICDS _CDS021 8	WO2007 113237	2	Arabidopsis thaliana	CATALYZES THE DECARBOXY- LATION OF 4- PHOSPHOPANTOTHENOYL CYSTEINETO 4- PHOSPHOPANTETHEINE
176.	GOICDS _CDS153 6	WO2004/ 058980	2	Arabidopsis thaliana	SALT INDUCIBLE TRANSCRIP- TIONAL REGULATOR (CYS- 2/HIS-2-TYPE ZINC FINGER)
177.		WO2004/ 058980	27	Arabidopsis thaliana	TRANSCRIPTION FAC- TOR;CYS2/HIS2-TYPE ZINC FIN- GER PROTEIN
178.	GOICDS _CDS307 4	WO2006/ 079655	8	Arabidopsis thaliana	SYTprotein
179.	DPpro- tein	WO2005/ 117568	2	Arabidopsis thaliana	TRANSCRIPTION FACTOR;CELL CYCLEREGULATION
180.	GOICDS _CDS007 8	WO2006 018432	2	Arabidopsis thaliana	RNA BINDING;CELLP ROLIFERA- TION
181.	GOICDS _CDS082 7	WO2006 005771	2	Arabidopsis thaliana	SERINE/THREONINE- PROTEINKINASE
182.		WO2004/ 090142	2	Arabidopsis thaliana	METAL-BINDING;RESISTANCE TO METALS;DETOXIFICATION OF HYDROXYL RADICALS
183.	GOICDS _CDS152 2	WO2006/ 005751	2	Arabidopsis thaliana	PUTATIVE ZINC BINDINGPROTE- IN
184.	GOICDS _CDS259 1	WO2004 087755	2	Arabidopsis thaliana	NON-SYMBIOTIC HEMOGLOBIN2
185.	GOICDS	WO2006/ 14	14	Arabidopsis	RECEPTOR-LIKE

	<u>CDS314</u> 2	131547		thaliana	KINASE;SERINE/THREONINE- PROTEINKINASE;LEUCINE-RICH REPEAT(LRR)CONTAINING KINASE
186.		WO2006/ 079655	804	Arabidopsis thaliana	
187.		WO2007/ 138070	14		
188.		WO2007 064724	132	Arabidopsis thaliana	CELLCYCLE REGULATION
189.	CDS3298	WO2007/ 113237	602	Arabidopsis thaliana	
190.		WO2004/ 090141	10	BV	PUTATIVE UBIQUITIN- PROTEINLIGASE
191.	GOICDS _CDS276 7	WO2004 087755	2	BV	NON-SYMBIOTIC HEMOGLOBIN2
192.	YIL076w	WO2006 032708	98	Saccharomyces cerevisiae	EPSILON-COP SUBUNIT OF THE COATOMER;REGULATES RET- ROGRADEGOLGI-TO-ER PRO- TEIN TRAFFIC;STABILIZE SCOP1P
193.	YIL156W	WO2006 032708		Saccharomyces cerevisiae	UBIQUITIN-SPECIFIC PROTEASE THAT CLEAVE SUBIQUITIN- PROTEIN FUSIONS
194.	YIL172C	WO2007 020198	225	Saccharomyces cerevisiae	PUTATIVE PROTEIN OF UN- KNOWN FUNCTION WITH SIMI- LARITY TO GLUCOSIDASES
195.	YMR095 C	WO2006 013010	2	Saccharomyces cerevisiae	PUTATIVE GLUTAMINE AMIDO- TRANSFERASE
196.	YMR217 W	WO2007 020198	244	Saccharomyces cerevisiae	GMP SYNTHASE
197.	GOICDS _CDS068 9	WO2005 049646	2	Nicotianataba- cum	UNKNOWN (UNDEFINED ROLEIN CELLCYCLE)
198.	GOICDS _CDS070 1	WO2006 018432	15	Nicotianataba- cum	RNA BINDING;PROBABLY IN- VOLVED IN RNA PRCESS- ING(I.E.SPLICING)
199.	EF-Tu	WO2006/ 067232	2	Nicotianataba- cum	TRANSLATION ELONGATION FACTOR;TRNA BINDING
200.	GOICDS _CDS066 9	WO2005 059147	2	Nicotianataba- cum	FUNCTION UNKNOWN (HYPO- THETICALLY GROWTH RE- LATED)
201.	GOICDS _CDS067 1	WO2004 087927	2	Nicotianataba- cum	AAA-ATPASE;THIS IS A TRUN- CATED PROTEIN THAT CON- TAINS ONLY THE ATPASE DO- MAIN OFATOB3-LIKEPROTEIN

202.	GOICDS	WO2007/ 0647249	042	Oryza sativa	
203.	GOICDS _CDS160 8	WO2004/ 106528	2	Oryza sativa	VACUOLAR(NA
204.		WO2006 056590	2	Oryza sativa	TRANSCRIPTION FACTOR;MAY PROMOTE FLORAL TRANSITION PAHSE, DIFFERENTIATION PROGRAM OF THE VEGETATIVE SHOOT
205.	GOICDS _CDS064 4_7	WO2006 058897	2	Oryza sativa	CDKA
206.		WO2007 099096	2	Oryza sativa	DNA BINDING PRO- TEIN;INVOLVED IN SEEDMATU- RATION(PUTATIVE)
207.	GOICDS _CDS244 7	WO2007/ 051866	2	Oryza sativa	TRANSCRIPTION FACTOR;HOME O DOMAIN LEUCINE ZIPPER- PROTEIN
208.	GOICDS _CDS302 7	WO2007/ 113237	2	Oryza sativa	
209.	GOISCD S_CDS3 159	WO2007/ 0647249	042	Oryza sativa	
210.	GOISCD S	WO2006/ 008271	2	Oryza sativa	TRANSCRIPTIONFACTOR
211.	GOICDS _CDS064 4_7	WO2006 058897	2	Oryza sativa	CYCLIN-DEPENDENT KINASE
212.	GOICDS _CDS187 7	WO2006/ 067236	2	Oryza sativa	CO-CHAPERONE;PROTECTION OF CELLS AGAINST STRESS
213.		WO2007/ 003409	2	Oryza sativa	TRANSCRIPTIONAL REGULATOR (GASIGNALLING REPRES- SORINKERNELS)
214.	YPL211w	WO2006 032708	218	Saccharomyces cerevisiae	NUCLEOLAR PROTEIN RE- QUIRED FOR 60SRIBOSOME SUBUNIT BIOGENESIS
215.	YIL121w	WO2006 032708	106	Saccharomyces cerevisiae	MULTIDRUG TRANSPORTER REQUIRED FOR RESISTANCE TO QUINIDINE

Table C

Line in Table B	Gene Name/ LocusID	Active ingredientB	Line in Table B	Gene Name/ LocusID	Active ingredientB
1	ATACCD	acephate	112	YNL024c	Cyprodinil
1	ATACCD	chlorpyrifos	112	YNL024c	Pyrimethanil
1	ATACCD	dimethoate	112	YNL024c	Fenpropimorph
1	ATACCD	methamidophos	112	YNL024c	Tridemorph
1	ATACCD	terbufos	112	YNL024c	Iprodione
1	ATACCD	aldicarb	112	YNL024c	5-ethyl-6-octyl-[1,2,4] triazolo[1,5-a]pyrimidine-7-ylamine
1	ATACCD	carbofuran	112	YNL024c	Mancozeb
1	ATACCD	bifenthrin	112	YNL024c	Maneb
1	ATACCD	cypermethrin	112	YNL024c	Metiram
1	ATACCD	alpha-cypermethrin	112	YNL024c	Dithianon
1	ATACCD	deltamethrin	112	YNL024c	Chlorothalonil
1	ATACCD	lambda-cyhalothrin	112	YNL024c	ThiophanateMethyl
1	ATACCD	tefluthrin	112	YNL024c	Cymoxanil
1	ATACCD	flufenoxuron	112	YNL024c	Metrafenone
1	ATACCD	teflubenzuron	112	YNL024c	Acetochlor
1	ATACCD	spirotetramat;	112	YNL024c	Dimethenamid
1	ATACCD	clothianidin	112	YNL024c	Metolachlor
1	ATACCD	imidacloprid	112	YNL024c	Metazachlor
1	ATACCD	thiamethoxam	112	YNL024c	Glyphosate
1	ATACCD	endosulfan	112	YNL024c	Glufosinate
1	ATACCD	fipronil	112	YNL024c	Sulfosate
1	ATACCD	abamectin	112	YNL024c	Fenoxaprop
1	ATACCD	spinosad	112	YNL024c	Paraquat
1	ATACCD	spinetoram	112	YNL024c	Cycloxydim
1	ATACCD	hydramethylnon;	112	YNL024c	Profoxydim
1	ATACCD	chlorfenapyr;	112	YNL024c	Sethoxydim
1	ATACCD	indoxacarb	112	YNL024c	Tepraloxydim
1	ATACCD	metaflumizone	112	YNL024c	Pendimethalin
1	ATACCD	flubendiamide	112	YNL024c	Acifluorfen
1	ATACCD	chlorantraniliprole	112	YNL024c	Imazamethabenz
1	ATACCD	cyazypyr(HGW86)	112	YNL024c	Imazamox

1	ATACCD	Azoxystrobin	112	YNL024c	Imazapic
1	ATACCD	Dimoxystrobin	112	YNL024c	Imazapyr
1	ATACCD	Kresoxim-methyl	112	YNL024c	Imazaquin
1	ATACCD	Orysastrobin	112	YNL024c	Imazethapyr
1	ATACCD	Pyraclostrobin	112	YNL024c	2,4-D
1	ATACCD	Trifloxystrobin	112	YNL024c	Chloridazon
1	ATACCD	Bixafen	112	YNL024c	Picloram
1	ATACCD	Boscalid	112	YNL024c	Picolinafen
1	ATACCD	Isopyrazam	112	YNL024c	Cyclosulfamuron
1	ATACCD	Metalaxyl	112	YNL024c	Triflusulfuron
1	ATACCD	Penthiopyrad	112	YNL024c	Atrazine
1	ATACCD	3-Difluoromethyl-1-methyl-1H-pyrazole-4-carboxylic acid(2',4',5'-trifluorobiphenyl-2-yl)-amide	112	YNL024c	Pyroxasulfone
1	ATACCD	Dimethomorph	112	YNL024c	Bentazone
1	ATACCD	Difenoconazole	112	YNL024c	Cinidon-ethly
1	ATACCD	Epoxiconazole	112	YNL024c	Cinmethylin
1	ATACCD	Fluquinconazole	112	YNL024c	Dicamba
1	ATACCD	Metconazol	112	YNL024c	Diflufenzopyr
1	ATACCD	Propiconazole	112	YNL024c	Quinclorac
1	ATACCD	Prothioconazole	112	YNL024c	Quinmerac
1	ATACCD	Tebuconazole	112	YNL024c	Mesotrione
1	ATACCD	Triticonazole	112	YNL024c	Saflufenacil
1	ATACCD	Prochloraz	112	YNL024c	Topramezone;
1	ATACCD	Carbendazim	150	YER174c	acephate
1	ATACCD	Cyprodinil	150	YER174c	chlorpyrifos
1	ATACCD	Pyrimethanil	150	YER174c	dimethoate
1	ATACCD	Fenpropimorph	150	YER174c	methamidophos
1	ATACCD	Tridemorph	150	YER174c	terbufos
1	ATACCD	Iprodione	150	YER174c	aldicarb
1	ATACCD	5-ethyl-6-octyl-[1,2,4] triazolo[1,5-a]pyrimidine-7-ylamine	150	YER174c	carbofuran
1	ATACCD	Mancozeb	150	YER174c	bifenthrin
1	ATACCD	Maneb	150	YER174c	cypermethrin
1	ATACCD	Metiram	150	YER174c	alpha-cypermethrin
1	ATACCD	Dithianon	150	YER174c	deltamethrin
1	ATACCD	Chlorothalonil	150	YER174c	lambda-cyhalothrin

1	ATACCD	ThiophanateMethyl	150	YER174c	tefluthrin
1	ATACCD	Cymoxanil	150	YER174c	flufenoxuron
1	ATACCD	Metrafenone	150	YER174c	teflubenzuron
1	ATACCD	Acetochlor	150	YER174c	spirotetramat;
1	ATACCD	Dimethenamid	150	YER174c	clothianidin
1	ATACCD	Metolachlor	150	YER174c	imidacloprid
1	ATACCD	Metazachlor	150	YER174c	thiamethoxam
1	ATACCD	Glyphosate	150	YER174c	endosulfan
1	ATACCD	Glufosinate	150	YER174c	fipronil
1	ATACCD	Sulfosate	150	YER174c	abamectin
1	ATACCD	Fenoxaprop	150	YER174c	spinosad
1	ATACCD	Paraquat	150	YER174c	spinetoram
1	ATACCD	Cycloxydim	150	YER174c	hydramethylnon;
1	ATACCD	Profoxydim	150	YER174c	chlorfenapyr;
1	ATACCD	Sethoxydim	150	YER174c	indoxacarb
1	ATACCD	Tepraloxydim	150	YER174c	metaflumizone
1	ATACCD	Pendimethalin	150	YER174c	flubendiamide
1	ATACCD	Acifluorfen	150	YER174c	chlorantraniliprole
1	ATACCD	Imazamethabenz	150	YER174c	cyazypyr(HGW86)
1	ATACCD	Imazamox	150	YER174c	Azoxystrobin
1	ATACCD	Imazapic	150	YER174c	Dimoxystrobin
1	ATACCD	Imazapyr	150	YER174c	Kresoxim-methyl
1	ATACCD	Imazaquin	150	YER174c	Orysastrobin
1	ATACCD	Imazethapyr	150	YER174c	Pyraclostrobin
1	ATACCD	2,4-D	150	YER174c	Trifloxystrobin
1	ATACCD	Chloridazon	150	YER174c	Bixafen
1	ATACCD	Picloram	150	YER174c	Boscalid
1	ATACCD	Picolinafen	150	YER174c	Isopyrazam
1	ATACCD	Cyclosulfamuron	150	YER174c	Metalaxyl
1	ATACCD	Triflusulfuron	150	YER174c	Penthiopyrad
1	ATACCD	Atrazine	150	YER174c	3-Difluoromethyl-1-methyl-1H-pyrazole-4-carboxylic acid(2',4',5'-trifluorobiphenyl-2-yl)-amide
1	ATACCD	Pyroxasulfone	150	YER174c	Dimethomorph
1	ATACCD	Bentazone	150	YER174c	Difenoconazole
1	ATACCD	Cinidon-ethly	150	YER174c	Epoxiconazole
1	ATACCD	Cinmethylin	150	YER174c	Fluquinconazole
1	ATACCD	Dicamba	150	YER174c	Metconazol

1	ATACCD	Diflufenzopyr	150	YER174c	Propiconazole
1	ATACCD	Quinclorac	150	YER174c	Prothioconazole
1	ATACCD	Quinmerac	150	YER174c	Tebuconazole
1	ATACCD	Mesotrione	150	YER174c	Triticonazole
1	ATACCD	Saflufenacil	150	YER174c	Prochloraz
1	ATACCD	Topramezone;	150	YER174c	Carbendazim
5	ATSTE24	acephate	150	YER174c	Cyprodinil
5	ATSTE24	chlorpyrifos	150	YER174c	Pyrimethanil
5	ATSTE24	dimethoate	150	YER174c	Fenpropimorph
5	ATSTE24	methamidophos	150	YER174c	Tridemorph
5	ATSTE24	terbufos	150	YER174c	Iprodione
5	ATSTE24	aldicarb	150	YER174c	5-ethyl-6-octyl-[1,2,4] triazolo[1,5-a]pyrimidine-7-ylamine
5	ATSTE24	carbofuran	150	YER174c	Mancozeb
5	ATSTE24	bifenthrin	150	YER174c	Maneb
5	ATSTE24	cypermethrin	150	YER174c	Metiram
5	ATSTE24	alpha-cypermethrin	150	YER174c	Dithianon
5	ATSTE24	deltamethrin	150	YER174c	Chlorothalonil
5	ATSTE24	lambda-cyhalothrin	150	YER174c	ThiophanateMethyl
5	ATSTE24	tefluthrin	150	YER174c	Cymoxanil
5	ATSTE24	flufenoxuron	150	YER174c	Metrafenone
5	ATSTE24	teflubenzuron	150	YER174c	Acetochlor
5	ATSTE24	spirotetramat;	150	YER174c	Dimethenamid
5	ATSTE24	clothianidin	150	YER174c	Metolachlor
5	ATSTE24	imidacloprid	150	YER174c	Metazachlor
5	ATSTE24	thiamethoxam	150	YER174c	Glyphosate
5	ATSTE24	endosulfan	150	YER174c	Glufosinate
5	ATSTE24	fipronil	150	YER174c	Sulfosate
5	ATSTE24	abamectin	150	YER174c	Fenoxaprop
5	ATSTE24	spinosad	150	YER174c	Paraquat
5	ATSTE24	spinetoram	150	YER174c	Cycloxydim
5	ATSTE24	hydramethylnon;	150	YER174c	Profoxydim
5	ATSTE24	chlorfenapyr;	150	YER174c	Sethoxydim
5	ATSTE24	indoxacarb	150	YER174c	Tepraloxydim
5	ATSTE24	metaflumizone	150	YER174c	Pendimethalin
5	ATSTE24	flubendiamide	150	YER174c	Acifluorfen
5	ATSTE24	chlorantraniliprole	150	YER174c	Imazamethabenz
5	ATSTE24	cyazypyr(HGW86)	150	YER174c	Imazamox

5	ATSTE24	Azoxystrobin	150	YER174c	Imazapic
5	ATSTE24	Dimoxystrobin	150	YER174c	Imazapyr
5	ATSTE24	Kresoxim-methyl	150	YER174c	Imazaquin
5	ATSTE24	Orysastrobin	150	YER174c	Imazethapyr
5	ATSTE24	Pyraclostrobin	150	YER174c	2,4-D
5	ATSTE24	Trifloxystrobin	150	YER174c	Chloridazon
5	ATSTE24	Bixafen	150	YER174c	Picloram
5	ATSTE24	Boscalid	150	YER174c	Picolinafen
5	ATSTE24	Isopyrazam	150	YER174c	Cyclosulfamuron
5	ATSTE24	Metalaxyl	150	YER174c	Triflusulfuron
5	ATSTE24	Penthiopyrad	150	YER174c	Atrazine
5	ATSTE24	3-Difluoromethyl-1-methyl-1H-pyrazole-4-carboxylic acid(2',4',5'-trifluoro-biphenyl-2-yl)-amide	150	YER174c	Pyroxasulfone
5	ATSTE24	Dimethomorph	150	YER174c	Bentazone
5	ATSTE24	Difenoconazole	150	YER174c	Cinidon-ethyl
5	ATSTE24	Epoxiconazole	150	YER174c	Cinmethylin
5	ATSTE24	Fluquinconazole	150	YER174c	Dicamba
5	ATSTE24	Metconazol	150	YER174c	Diflufenzopyr
5	ATSTE24	Propiconazole	150	YER174c	Quinclorac
5	ATSTE24	Prothioconazole	150	YER174c	Quinmerac
5	ATSTE24	Tebuconazole	150	YER174c	Mesotrione
5	ATSTE24	Triticonazole	150	YER174c	Saflufenacil
5	ATSTE24	Prochloraz	150	YER174c	Topramezone;
5	ATSTE24	Carbendazim	159	YGR060w	acephate
5	ATSTE24	Cyprodinil	159	YGR060w	chlorpyrifos
5	ATSTE24	Pyrimethanil	159	YGR060w	dimethoate
5	ATSTE24	Fenpropimorph	159	YGR060w	methamidophos
5	ATSTE24	Tridemorph	159	YGR060w	terbufos
5	ATSTE24	Iprodione	159	YGR060w	aldicarb
5	ATSTE24	5-ethyl-6-octyl-[1,2,4] triazolo[1,5-a]pyrimidine-7-ylamine	159	YGR060w	carbofuran
5	ATSTE24	Mancozeb	159	YGR060w	bifenthrin
5	ATSTE24	Maneb	159	YGR060w	cypermethrin
5	ATSTE24	Metiram	159	YGR060w	alpha-cypermethrin
5	ATSTE24	Dithianon	159	YGR060w	deltamethrin
5	ATSTE24	Chlorothalonil	159	YGR060w	lambda-cyhalothrin

5	ATSTE24	ThiophanateMethyl	159	YGR060w	tefluthrin
5	ATSTE24	Cymoxanil	159	YGR060w	flufenoxuron
5	ATSTE24	Metrafenone	159	YGR060w	teflubenzuron
5	ATSTE24	Acetochlor	159	YGR060w	spirotetramat;
5	ATSTE24	Dimethenamid	159	YGR060w	clothianidin
5	ATSTE24	Metolachlor	159	YGR060w	imidacloprid
5	ATSTE24	Metazachlor	159	YGR060w	thiamethoxam
5	ATSTE24	Glyphosate	159	YGR060w	endosulfan
5	ATSTE24	Glufosinate	159	YGR060w	fipronil
5	ATSTE24	Sulfosate	159	YGR060w	abamectin
5	ATSTE24	Fenoxaprop	159	YGR060w	spinosad
5	ATSTE24	Paraquat	159	YGR060w	spinetoram
5	ATSTE24	Cycloxydim	159	YGR060w	hydramethylnon;
5	ATSTE24	Profoxydim	159	YGR060w	chlorfenapyr;
5	ATSTE24	Sethoxydim	159	YGR060w	indoxacarb
5	ATSTE24	Tepraloxydim	159	YGR060w	metaflumizone
5	ATSTE24	Pendimethalin	159	YGR060w	flubendiamide
5	ATSTE24	Acifluorfen	159	YGR060w	chlorantraniliprole
5	ATSTE24	Imazamethabenz	159	YGR060w	cyazypyr(HGW86)
5	ATSTE24	Imazamox	159	YGR060w	Azoxystrobin
5	ATSTE24	Imazapic	159	YGR060w	Dimoxystrobin
5	ATSTE24	Imazapyr	159	YGR060w	Kresoxim-methyl
5	ATSTE24	Imazaquin	159	YGR060w	Orysastrobin
5	ATSTE24	Imazethapyr	159	YGR060w	Pyraclostrobin
5	ATSTE24	2,4-D	159	YGR060w	Trifloxystrobin
5	ATSTE24	Chloridazon	159	YGR060w	Bixafen
5	ATSTE24	Picloram	159	YGR060w	Boscalid
5	ATSTE24	Picolinafen	159	YGR060w	Isopyrazam
5	ATSTE24	Cyclosulfamuron	159	YGR060w	Metalaxyl
5	ATSTE24	Triflusulfuron	159	YGR060w	Penthiopyrad
5	ATSTE24	Atrazine	159	YGR060w	3-Difluoromethyl-1-methyl-1H-pyrazole-4-carboxylic acid(2',4',5'-trifluorobiphenyl-2-yl)-amide
5	ATSTE24	Pyroxasulfone	159	YGR060w	Dimethomorph
5	ATSTE24	Bentazone	159	YGR060w	Difenoconazole
5	ATSTE24	Cinidon-ethly	159	YGR060w	Epoxiconazole
5	ATSTE24	Cinmethylin	159	YGR060w	Fluquinconazole
5	ATSTE24	Dicamba	159	YGR060w	Metconazol

5	ATSTE24	Diflufenzopyr	159	YGR060w	Propiconazole
5	ATSTE24	Quinclorac	159	YGR060w	Prothioconazole
5	ATSTE24	Quinmerac	159	YGR060w	Tebuconazole
5	ATSTE24	Mesotrione	159	YGR060w	Triticonazole
5	ATSTE24	Saflufenacil	159	YGR060w	Prochloraz
5	ATSTE24	Topramezone;	159	YGR060w	Carbendazim
7	b2965	acephate	159	YGR060w	Cyprodinil
7	b2965	chlorpyrifos	159	YGR060w	Pyrimethanil
7	b2965	dimethoate	159	YGR060w	Fenpropimorph
7	b2965	methamidophos	159	YGR060w	Tridemorph
7	b2965	terbufos	159	YGR060w	Iprodione
7	b2965	aldicarb	159	YGR060w	5-ethyl-6-octyl-[1,2,4] triazolo[1,5-a]pyrimidine-7-ylamine
7	b2965	carbofuran	159	YGR060w	Mancozeb
7	b2965	bifenthrin	159	YGR060w	Maneb
7	b2965	cypermethrin	159	YGR060w	Metiram
7	b2965	alpha-cypermethrin	159	YGR060w	Dithianon
7	b2965	deltamethrin	159	YGR060w	Chlorothalonil
7	b2965	lambda-cyhalothrin	159	YGR060w	ThiophanateMethyl
7	b2965	tefluthrin	159	YGR060w	Cymoxanil
7	b2965	flufenoxuron	159	YGR060w	Metrafenone
7	b2965	teflubenzuron	159	YGR060w	Acetochlor
7	b2965	spirotetramat;	159	YGR060w	Dimethenamid
7	b2965	clothianidin	159	YGR060w	Metolachlor
7	b2965	imidacloprid	159	YGR060w	Metazachlor
7	b2965	thiamethoxam	159	YGR060w	Glyphosate
7	b2965	endosulfan	159	YGR060w	Glufosinate
7	b2965	fipronil	159	YGR060w	Sulfosate
7	b2965	abamectin	159	YGR060w	Fenoxaprop
7	b2965	spinosad	159	YGR060w	Paraquat
7	b2965	spinetoram	159	YGR060w	Cycloxydim
7	b2965	hydramethylnon;	159	YGR060w	Profoxydim
7	b2965	chlorfenapyr;	159	YGR060w	Sethoxydim
7	b2965	indoxacarb	159	YGR060w	Tepraloxydim
7	b2965	metaflumizone	159	YGR060w	Pendimethalin
7	b2965	flubendiamide	159	YGR060w	Acifluorfen
7	b2965	chlorantraniliprole	159	YGR060w	Imazamethabenz
7	b2965	cyazypyr(HGW86)	159	YGR060w	Imazamox

7	b2965	Azoxystrobin	159	YGR060w	Imazapic
7	b2965	Dimoxystrobin	159	YGR060w	Imazapyr
7	b2965	Kresoxim-methyl	159	YGR060w	Imazaquin
7	b2965	Orysastrobin	159	YGR060w	Imazethapyr
7	b2965	Pyraclostrobin	159	YGR060w	2,4-D
7	b2965	Trifloxystrobin	159	YGR060w	Chloridazon
7	b2965	Bixafen	159	YGR060w	Picloram
7	b2965	Boscalid	159	YGR060w	Picolinafen
7	b2965	Isopyrazam	159	YGR060w	Cyclosulfamuron
7	b2965	Metalaxyl	159	YGR060w	Triflusulfuron
7	b2965	Penthiopyrad	159	YGR060w	Atrazine
7	b2965	3-Difluoromethyl-1-methyl-1H-pyrazole-4-carboxylic acid(2',4',5'-trifluoro-biphenyl-2-yl)-amide	159	YGR060w	Pyroxasulfone
7	b2965	Dimethomorph	159	YGR060w	Bentazone
7	b2965	Difenoconazole	159	YGR060w	Cinidon-ethyl
7	b2965	Epoxiconazole	159	YGR060w	Cinmethylin
7	b2965	Fluquinconazole	159	YGR060w	Dicamba
7	b2965	Metconazol	159	YGR060w	Diflufenzopyr
7	b2965	Propiconazole	159	YGR060w	Quinclorac
7	b2965	Prothioconazole	159	YGR060w	Quinmerac
7	b2965	Tebuconazole	159	YGR060w	Mesotrione
7	b2965	Triticonazole	159	YGR060w	Saflufenacil
7	b2965	Prochloraz	159	YGR060w	Topramezone;
7	b2965	Carbendazim	164	ROB5	acephate
7	b2965	Cyprodinil	164	ROB5	chlorpyrifos
7	b2965	Pyrimethanil	164	ROB5	dimethoate
7	b2965	Fenpropimorph	164	ROB5	methamidophos
7	b2965	Tridemorph	164	ROB5	terbufos
7	b2965	Iprodione	164	ROB5	aldicarb
7	b2965	5-ethyl-6-octyl-[1,2,4] triazolo[1,5-a]pyrimidine-7-ylamine	164	ROB5	carbofuran
7	b2965	Mancozeb	164	ROB5	bifenthrin
7	b2965	Maneb	164	ROB5	cypermethrin
7	b2965	Metiram	164	ROB5	alpha-cypermethrin
7	b2965	Dithianon	164	ROB5	deltamethrin
7	b2965	Chlorothalonil	164	ROB5	lambda-cyhalothrin

7	b2965	ThiophanateMethyl	164	ROB5	tefluthrin
7	b2965	Cymoxanil	164	ROB5	flufenoxuron
7	b2965	Metrafenone	164	ROB5	teflubenzuron
7	b2965	Acetochlor	164	ROB5	spirotetramat;
7	b2965	Dimethenamid	164	ROB5	clothianidin
7	b2965	Metolachlor	164	ROB5	imidacloprid
7	b2965	Metazachlor	164	ROB5	thiamethoxam
7	b2965	Glyphosate	164	ROB5	endosulfan
7	b2965	Glufosinate	164	ROB5	fipronil
7	b2965	Sulfosate	164	ROB5	abamectin
7	b2965	Fenoxaprop	164	ROB5	spinosad
7	b2965	Paraquat	164	ROB5	spinetoram
7	b2965	Cycloxydim	164	ROB5	hydramethylnon;
7	b2965	Profoxydim	164	ROB5	chlorfenapyr;
7	b2965	Sethoxydim	164	ROB5	indoxacarb
7	b2965	Tepraloxydim	164	ROB5	metaflumizone
7	b2965	Pendimethalin	164	ROB5	flubendiamide
7	b2965	Acifluorfen	164	ROB5	chlorantraniliprole
7	b2965	Imazamethabenz	164	ROB5	cyazypyr(HGW86)
7	b2965	Imazamox	164	ROB5	Azoxystrobin
7	b2965	Imazapic	164	ROB5	Dimoxystrobin
7	b2965	Imazapyr	164	ROB5	Kresoxim-methyl
7	b2965	Imazaquin	164	ROB5	Orysastrobin
7	b2965	Imazethapyr	164	ROB5	Pyraclostrobin
7	b2965	2,4-D	164	ROB5	Trifloxystrobin
7	b2965	Chloridazon	164	ROB5	Bixafen
7	b2965	Picloram	164	ROB5	Boscalid
7	b2965	Picolinafen	164	ROB5	Isopyrazam
7	b2965	Cyclosulfamuron	164	ROB5	Metalaxyl
7	b2965	Triflusulfuron	164	ROB5	Penthiopyrad
7	b2965	Atrazine	164	ROB5	3-Difluoromethyl-1-methyl-1H-pyrazole-4-carboxylic acid(2',4',5'-trifluorobiphenyl-2-yl)-amide
7	b2965	Pyroxasulfone	164	ROB5	Dimethomorph
7	b2965	Bentazone	164	ROB5	Difenoconazole
7	b2965	Cinidon-ethly	164	ROB5	Epoxiconazole
7	b2965	Cinmethylin	164	ROB5	Fluquinconazole
7	b2965	Dicamba	164	ROB5	Metconazol

7	b2965	Diflufenzopyr	164	ROB5	Propiconazole
7	b2965	Quinclorac	164	ROB5	Prothioconazole
7	b2965	Quinmerac	164	ROB5	Tebuconazole
7	b2965	Mesotrione	164	ROB5	Triticonazole
7	b2965	Saflufenacil	164	ROB5	Prochloraz
7	b2965	Topramezone;	164	ROB5	Carbendazim
10	B0730	acephate	164	ROB5	Cyprodinil
10	B0730	chlorpyrifos	164	ROB5	Pyrimethanil
10	B0730	dimethoate	164	ROB5	Fenpropimorph
10	B0730	methamidophos	164	ROB5	Tridemorph
10	B0730	terbufos	164	ROB5	Iprodione
10	B0730	aldicarb	164	ROB5	5-ethyl-6-octyl-[1,2,4] triazolo[1,5-a]pyrimidine-7-ylamine
10	B0730	carbofuran	164	ROB5	Mancozeb
10	B0730	bifenthrin	164	ROB5	Maneb
10	B0730	cypermethrin	164	ROB5	Metiram
10	B0730	alpha-cypermethrin	164	ROB5	Dithianon
10	B0730	deltamethrin	164	ROB5	Chlorothalonil
10	B0730	lambda-cyhalothrin	164	ROB5	ThiophanateMethyl
10	B0730	tefluthrin	164	ROB5	Cymoxanil
10	B0730	flufenoxuron	164	ROB5	Metrafenone
10	B0730	teflubenzuron	164	ROB5	Acetochlor
10	B0730	spirotetramat;	164	ROB5	Dimethenamid
10	B0730	clothianidin	164	ROB5	Metolachlor
10	B0730	imidacloprid	164	ROB5	Metazachlor
10	B0730	thiamethoxam	164	ROB5	Glyphosate
10	B0730	endosulfan	164	ROB5	Glufosinate
10	B0730	fipronil	164	ROB5	Sulfosate
10	B0730	abamectin	164	ROB5	Fenoxaprop
10	B0730	spinosad	164	ROB5	Paraquat
10	B0730	spinetoram	164	ROB5	Cycloxydim
10	B0730	hydramethylnon;	164	ROB5	Profoxydim
10	B0730	chlorfenapyr;	164	ROB5	Sethoxydim
10	B0730	indoxacarb	164	ROB5	Tepraloxydim
10	B0730	metaflumizone	164	ROB5	Pendimethalin
10	B0730	flubendiamide	164	ROB5	Acifluorfen
10	B0730	chlorantraniliprole	164	ROB5	Imazamethabenz
10	B0730	cyazypyr(HGW86)	164	ROB5	Imazamox

10	B0730	Azoxystrobin	164	ROB5	Imazapic
10	B0730	Dimoxystrobin	164	ROB5	Imazapyr
10	B0730	Kresoxim-methyl	164	ROB5	Imazaquin
10	B0730	Orysastrobin	164	ROB5	Imazethapyr
10	B0730	Pyraclostrobin	164	ROB5	2,4-D
10	B0730	Trifloxystrobin	164	ROB5	Chloridazon
10	B0730	Bixafen	164	ROB5	Picloram
10	B0730	Boscalid	164	ROB5	Picolinafen
10	B0730	Isopyrazam	164	ROB5	Cyclosulfamuron
10	B0730	Metalaxyl	164	ROB5	Triflusulfuron
10	B0730	Penthiopyrad	164	ROB5	Atrazine
10	B0730	3-Difluoromethyl-1-methyl-1H-pyrazole-4-carboxylic acid(2',4',5'-trifluorobiphenyl-2-yl)-amide	164	ROB5	Pyroxasulfone
10	B0730	Dimethomorph	164	ROB5	Bentazone
10	B0730	Difenoconazole	164	ROB5	Cinidon-ethyl
10	B0730	Epoxiconazole	164	ROB5	Cinmethylin
10	B0730	Fluquinconazole	164	ROB5	Dicamba
10	B0730	Metconazol	164	ROB5	Diflufenzopyr
10	B0730	Propiconazole	164	ROB5	Quinclorac
10	B0730	Prothioconazole	164	ROB5	Quinmerac
10	B0730	Tebuconazole	164	ROB5	Mesotrione
10	B0730	Triticonazole	164	ROB5	Saflufenacil
10	B0730	Prochloraz	164	ROB5	Topramezone;
10	B0730	Carbendazim	165	GOICDS_C DS0012	acephate
10	B0730	Cyprodinil	165	GOICDS_C DS0012	chlorpyrifos
10	B0730	Pyrimethanil	165	GOICDS_C DS0012	dimethoate
10	B0730	Fenpropimorph	165	GOICDS_C DS0012	methamidophos
10	B0730	Tridemorph	165	GOICDS_C DS0012	terbufos
10	B0730	Iprodione	165	GOICDS_C DS0012	aldicarb
10	B0730	5-ethyl-6-octyl-[1,2,4] triazolo[1,5-a]pyrimidine-7-ylamine	165	GOICDS_C DS0012	carbofuran
10	B0730	Mancozeb	165	GOICDS_C	bifenthrin

				DS0012	
10	B0730	Maneb	165	GOICDS_C DS0012	cypermethrin
10	B0730	Metiram	165	GOICDS_C DS0012	alpha-cypermethrin
10	B0730	Dithianon	165	GOICDS_C DS0012	deltamethrin
10	B0730	Chlorothalonil	165	GOICDS_C DS0012	lambda-cyhalothrin
10	B0730	ThiophanateMethyl	165	GOICDS_C DS0012	tefluthrin
10	B0730	Cymoxanil	165	GOICDS_C DS0012	flufenoxuron
10	B0730	Metrafenone	165	GOICDS_C DS0012	teflubenzuron
10	B0730	Acetochlor	165	GOICDS_C DS0012	spirotetramat;
10	B0730	Dimethenamid	165	GOICDS_C DS0012	clothianidin
10	B0730	Metolachlor	165	GOICDS_C DS0012	imidacloprid
10	B0730	Metazachlor	165	GOICDS_C DS0012	thiamethoxam
10	B0730	Glyphosate	165	GOICDS_C DS0012	endosulfan
10	B0730	Glufosinate	165	GOICDS_C DS0012	fipronil
10	B0730	Sulfosate	165	GOICDS_C DS0012	abamectin
10	B0730	Fenoxaprop	165	GOICDS_C DS0012	spinosad
10	B0730	Paraquat	165	GOICDS_C DS0012	spinetoram
10	B0730	Cycloxydim	165	GOICDS_C DS0012	hydramethylnon;
10	B0730	Profoxydim	165	GOICDS_C DS0012	chlorfenapyr;
10	B0730	Sethoxydim	165	GOICDS_C DS0012	indoxacarb
10	B0730	Tepraloxydim	165	GOICDS_C DS0012	metaflumizone
10	B0730	Pendimethalin	165	GOICDS_C DS0012	flubendiamide
10	B0730	Acifluorfen	165	GOICDS_C DS0012	chlorantraniliprole

10	B0730	Imazamethabenz	165	GOICDS_C DS0012	cyazypyr(HGW86)
10	B0730	Imazamox	165	GOICDS_C DS0012	Azoxystrobin
10	B0730	Imazapic	165	GOICDS_C DS0012	Dimoxystrobin
10	B0730	Imazapyr	165	GOICDS_C DS0012	Kresoxim-methyl
10	B0730	Imazaquin	165	GOICDS_C DS0012	Orysastrobin
10	B0730	Imazethapyr	165	GOICDS_C DS0012	Pyraclostrobin
10	B0730	2,4-D	165	GOICDS_C DS0012	Trifloxystrobin
10	B0730	Chloridazon	165	GOICDS_C DS0012	Bixafen
10	B0730	Picloram	165	GOICDS_C DS0012	Boscalid
10	B0730	Picolinafen	165	GOICDS_C DS0012	Isopyrazam
10	B0730	Cyclosulfamuron	165	GOICDS_C DS0012	Metalaxyl
10	B0730	Triflusulfuron	165	GOICDS_C DS0012	Penthiopyrad
10	B0730	Atrazine	165	GOICDS_C DS0012	3-Difluoromethyl-1-methyl-1H-pyrazole-4-carboxylic acid(2',4',5'-trifluorobiphenyl-2-yl)-amide
10	B0730	Pyroxasulfone	165	GOICDS_C DS0012	Dimethomorph
10	B0730	Bentazone	165	GOICDS_C DS0012	Difenoconazole
10	B0730	Cinidon-ethyl	165	GOICDS_C DS0012	Epoxiconazole
10	B0730	Cinmethylin	165	GOICDS_C DS0012	Fluquinconazole
10	B0730	Dicamba	165	GOICDS_C DS0012	Metconazol
10	B0730	Diflufenzopyr	165	GOICDS_C DS0012	Propiconazole
10	B0730	Quinclorac	165	GOICDS_C DS0012	Prothioconazole
10	B0730	Quinmerac	165	GOICDS_C DS0012	Tebuconazole
10	B0730	Mesotrione	165	GOICDS_C	Triticonazole

				DS0012	
10	B0730	Saflufenacil	165	GOICDS_C DS0012	Prochloraz
10	B0730	Topramezone;	165	GOICDS_C DS0012	Carbendazim
11	b1830	acephate	165	GOICDS_C DS0012	Cyprodinil
11	b1830	chlorpyrifos	165	GOICDS_C DS0012	Pyrimethanil
11	b1830	dimethoate	165	GOICDS_C DS0012	Fenpropimorph
11	b1830	methamidophos	165	GOICDS_C DS0012	Tridemorph
11	b1830	terbufos	165	GOICDS_C DS0012	Iprodione
11	b1830	aldicarb	165	GOICDS_C DS0012	5-ethyl-6-octyl-[1,2,4] triazolo[1,5-a]pyri- midine-7-ylamine
11	b1830	carbofuran	165	GOICDS_C DS0012	Mancozeb
11	b1830	bifenthrin	165	GOICDS_C DS0012	Maneb
11	b1830	cypermethrin	165	GOICDS_C DS0012	Metiram
11	b1830	alpha-cypermethrin	165	GOICDS_C DS0012	Dithianon
11	b1830	deltamethrin	165	GOICDS_C DS0012	Chlorothalonil
11	b1830	lambda-cyhalothrin	165	GOICDS_C DS0012	ThiophanateMethyl
11	b1830	tefluthrin	165	GOICDS_C DS0012	Cymoxanil
11	b1830	flufenoxuron	165	GOICDS_C DS0012	Metrafenone
11	b1830	teflubenzuron	165	GOICDS_C DS0012	Acetochlor
11	b1830	spirotetramat;	165	GOICDS_C DS0012	Dimethenamid
11	b1830	clothianidin	165	GOICDS_C DS0012	Metolachlor
11	b1830	imidacloprid	165	GOICDS_C DS0012	Metazachlor
11	b1830	thiamethoxam	165	GOICDS_C DS0012	Glyphosate
11	b1830	endosulfan	165	GOICDS_C	Glufosinate

				DS0012	
11	b1830	fipronil	165	GOICDS_C DS0012	Sulfosate
11	b1830	abamectin	165	GOICDS_C DS0012	Fenoxaprop
11	b1830	spinosad	165	GOICDS_C DS0012	Paraquat
11	b1830	spinetoram	165	GOICDS_C DS0012	Cycloxydim
11	b1830	hydramethylnon;	165	GOICDS_C DS0012	Profoxydim
11	b1830	chlorfenapyr;	165	GOICDS_C DS0012	Sethoxydim
11	b1830	indoxacarb	165	GOICDS_C DS0012	Tepraloxym
11	b1830	metaflumizone	165	GOICDS_C DS0012	Pendimethalin
11	b1830	flubendiamide	165	GOICDS_C DS0012	Acifluorfen
11	b1830	chlorantraniliprole	165	GOICDS_C DS0012	Imazamethabenz
11	b1830	cyazypyr(HGW86)	165	GOICDS_C DS0012	Imazamox
11	b1830	Azoxystrobin	165	GOICDS_C DS0012	Imazapic
11	b1830	Dimoxystrobin	165	GOICDS_C DS0012	Imazapyr
11	b1830	Kresoxim-methyl	165	GOICDS_C DS0012	Imazaquin
11	b1830	Orysastrobin	165	GOICDS_C DS0012	Imazethapyr
11	b1830	Pyraclostrobin	165	GOICDS_C DS0012	2,4-D
11	b1830	Trifloxystrobin	165	GOICDS_C DS0012	Chloridazon
11	b1830	Bixafen	165	GOICDS_C DS0012	Picloram
11	b1830	Boscalid	165	GOICDS_C DS0012	Picolinafen
11	b1830	Isopyrazam	165	GOICDS_C DS0012	Cyclosulfamuron
11	b1830	Metalaxyl	165	GOICDS_C DS0012	Triflusulfuron
11	b1830	Penthiopyrad	165	GOICDS_C DS0012	Atrazine

11	b1830	3-Difluoromethyl-1-methyl-1H-pyrazole-4-carboxylic acid(2',4',5'-trifluoro-biphenyl-2-yl)-amide	165	GOICDS_C DS0012	Pyroxasulfone
11	b1830	Dimethomorph	165	GOICDS_C DS0012	Bentazone
11	b1830	Difenoconazole	165	GOICDS_C DS0012	Cinidon-ethly
11	b1830	Epoxiconazole	165	GOICDS_C DS0012	Cinmethylin
11	b1830	Fluquinconazole	165	GOICDS_C DS0012	Dicamba
11	b1830	Metconazol	165	GOICDS_C DS0012	Diflufenzopyr
11	b1830	Propiconazole	165	GOICDS_C DS0012	Quinclorac
11	b1830	Prothioconazole	165	GOICDS_C DS0012	Quinmerac
11	b1830	Tebuconazole	165	GOICDS_C DS0012	Mesotrione
11	b1830	Triticonazole	165	GOICDS_C DS0012	Saflufenacil
11	b1830	Prochloraz	165	GOICDS_C DS0012	Topramezone;
11	b1830	Carbendazim	166	GOICDS_C DS0045	acephate
11	b1830	Cyprodinil	166	GOICDS_C DS0045	chlorpyrifos
11	b1830	Pyrimethanil	166	GOICDS_C DS0045	dimethoate
11	b1830	Fenpropimorph	166	GOICDS_C DS0045	methamidophos
11	b1830	Tridemorph	166	GOICDS_C DS0045	terbufos
11	b1830	Iprodione	166	GOICDS_C DS0045	aldicarb
11	b1830	5-ethyl-6-octyl-[1,2,4] triazolo[1,5-a]pyrimidine-7-ylamine	166	GOICDS_C DS0045	carbofuran
11	b1830	Mancozeb	166	GOICDS_C DS0045	bifenthrin
11	b1830	Maneb	166	GOICDS_C DS0045	cypermethrin
11	b1830	Metiram	166	GOICDS_C DS0045	alpha-cypermethrin

11	b1830	Dithianon	166	GOICDS_C DS0045	deltamethrin
11	b1830	Chlorothalonil	166	GOICDS_C DS0045	lambda-cyhalothrin
11	b1830	ThiophanateMethyl	166	GOICDS_C DS0045	tefluthrin
11	b1830	Cymoxanil	166	GOICDS_C DS0045	flufenoxuron
11	b1830	Metrafenone	166	GOICDS_C DS0045	teflubenzuron
11	b1830	Acetochlor	166	GOICDS_C DS0045	spirotetramat;
11	b1830	Dimethenamid	166	GOICDS_C DS0045	clothianidin
11	b1830	Metolachlor	166	GOICDS_C DS0045	imidacloprid
11	b1830	Metazachlor	166	GOICDS_C DS0045	thiamethoxam
11	b1830	Glyphosate	166	GOICDS_C DS0045	endosulfan
11	b1830	Glufosinate	166	GOICDS_C DS0045	fipronil
11	b1830	Sulfosate	166	GOICDS_C DS0045	abamectin
11	b1830	Fenoxaprop	166	GOICDS_C DS0045	spinosad
11	b1830	Paraquat	166	GOICDS_C DS0045	spinetoram
11	b1830	Cycloxydim	166	GOICDS_C DS0045	hydramethylnon;
11	b1830	Profoxydim	166	GOICDS_C DS0045	chlorfenapyr;
11	b1830	Sethoxydim	166	GOICDS_C DS0045	indoxacarb
11	b1830	Tepraloxydim	166	GOICDS_C DS0045	metaflumizone
11	b1830	Pendimethalin	166	GOICDS_C DS0045	flubendiamide
11	b1830	Acifluorfen	166	GOICDS_C DS0045	chlorantraniliprole
11	b1830	Imazamethabenz	166	GOICDS_C DS0045	cyazypyr(HGW86)
11	b1830	Imazamox	166	GOICDS_C DS0045	Azoxystrobin
11	b1830	Imazapic	166	GOICDS_C	Dimoxystrobin

				DS0045	
11	b1830	Imazapyr	166	GOICDS_C DS0045	Kresoxim-methyl
11	b1830	Imazaquin	166	GOICDS_C DS0045	Orysastrobin
11	b1830	Imazethapyr	166	GOICDS_C DS0045	Pyraclostrobin
11	b1830	2,4-D	166	GOICDS_C DS0045	Trifloxystrobin
11	b1830	Chloridazon	166	GOICDS_C DS0045	Bixafen
11	b1830	Picloram	166	GOICDS_C DS0045	Boscalid
11	b1830	Picolinafen	166	GOICDS_C DS0045	Isopyrazam
11	b1830	Cyclosulfamuron	166	GOICDS_C DS0045	Metalaxyl
11	b1830	Triflusulfuron	166	GOICDS_C DS0045	Penthiopyrad
11	b1830	Atrazine	166	GOICDS_C DS0045	3-Difluoromethyl-1- methyl-1H-pyrazole- 4-carboxylic acid(2',4',5'-trifluoro- biphenyl-2-yl)-amide
11	b1830	Pyroxasulfone	166	GOICDS_C DS0045	Dimethomorph
11	b1830	Bentazone	166	GOICDS_C DS0045	Difenoconazole
11	b1830	Cinidon-ethyl	166	GOICDS_C DS0045	Epoxiconazole
11	b1830	Cinmethylin	166	GOICDS_C DS0045	Fluquinconazole
11	b1830	Dicamba	166	GOICDS_C DS0045	Metconazol
11	b1830	Diflufenzopyr	166	GOICDS_C DS0045	Propiconazole
11	b1830	Quinclorac	166	GOICDS_C DS0045	Prothioconazole
11	b1830	Quinmerac	166	GOICDS_C DS0045	Tebuconazole
11	b1830	Mesotrione	166	GOICDS_C DS0045	Triticonazole
11	b1830	Saflufenacil	166	GOICDS_C DS0045	Prochloraz
11	b1830	Topramezone;	166	GOICDS_C DS0045	Carbendazim

12	b2664	acephate	166	GOICDS_C DS0045	Cyprodinil
12	b2664	chlorpyrifos	166	GOICDS_C DS0045	Pyrimethanil
12	b2664	dimethoate	166	GOICDS_C DS0045	Fenpropimorph
12	b2664	methamidophos	166	GOICDS_C DS0045	Tridemorph
12	b2664	terbufos	166	GOICDS_C DS0045	Iprodione
12	b2664	aldicarb	166	GOICDS_C DS0045	5-ethyl-6-octyl-[1,2,4] triazolo[1,5-a]pyri- midine-7-ylamine
12	b2664	carbofuran	166	GOICDS_C DS0045	Mancozeb
12	b2664	bifenthrin	166	GOICDS_C DS0045	Maneb
12	b2664	cypermethrin	166	GOICDS_C DS0045	Metiram
12	b2664	alpha-cypermethrin	166	GOICDS_C DS0045	Dithianon
12	b2664	deltamethrin	166	GOICDS_C DS0045	Chlorothalonil
12	b2664	lambda-cyhalothrin	166	GOICDS_C DS0045	ThiophanateMethyl
12	b2664	tefluthrin	166	GOICDS_C DS0045	Cymoxanil
12	b2664	flufenoxuron	166	GOICDS_C DS0045	Metrafenone
12	b2664	teflubenzuron	166	GOICDS_C DS0045	Acetochlor
12	b2664	spirotetramat;	166	GOICDS_C DS0045	Dimethenamid
12	b2664	clothianidin	166	GOICDS_C DS0045	Metolachlor
12	b2664	imidacloprid	166	GOICDS_C DS0045	Metazachlor
12	b2664	thiamethoxam	166	GOICDS_C DS0045	Glyphosate
12	b2664	endosulfan	166	GOICDS_C DS0045	Glufosinate
12	b2664	fipronil	166	GOICDS_C DS0045	Sulfosate
12	b2664	abamectin	166	GOICDS_C DS0045	Fenoxaprop

12	b2664	spinosad	166	GOICDS_C DS0045	Paraquat
12	b2664	spinetoram	166	GOICDS_C DS0045	Cycloxydim
12	b2664	hydramethylnon;	166	GOICDS_C DS0045	Profoxydim
12	b2664	chlorfenapyr;	166	GOICDS_C DS0045	Sethoxydim
12	b2664	indoxacarb	166	GOICDS_C DS0045	Tepraloxydim
12	b2664	metaflumizone	166	GOICDS_C DS0045	Pendimethalin
12	b2664	flubendiamide	166	GOICDS_C DS0045	Acifluorfen
12	b2664	chlorantraniliprole	166	GOICDS_C DS0045	Imazamethabenz
12	b2664	cyazypyr(HGW86)	166	GOICDS_C DS0045	Imazamox
12	b2664	Azoxystrobin	166	GOICDS_C DS0045	Imazapic
12	b2664	Dimoxystrobin	166	GOICDS_C DS0045	Imazapyr
12	b2664	Kresoxim-methyl	166	GOICDS_C DS0045	Imazaquin
12	b2664	Orysastrobin	166	GOICDS_C DS0045	Imazethapyr
12	b2664	Pyraclostrobin	166	GOICDS_C DS0045	2,4-D
12	b2664	Trifloxystrobin	166	GOICDS_C DS0045	Chloridazon
12	b2664	Bixafen	166	GOICDS_C DS0045	Picloram
12	b2664	Boscalid	166	GOICDS_C DS0045	Picolinafen
12	b2664	Isopyrazam	166	GOICDS_C DS0045	Cyclosulfamuron
12	b2664	Metalaxyl	166	GOICDS_C DS0045	Triflusulfuron
12	b2664	Penthiopyrad	166	GOICDS_C DS0045	Atrazine
12	b2664	3-Difluoromethyl-1- methyl-1H-pyrazole- 4-carboxylic a- cid(2',4',5'-trifluoro- biphenyl-2-yl)-amide	166	GOICDS_C DS0045	Pyroxasulfone
12	b2664	Dimethomorph	166	GOICDS_C	Bentazone

				DS0045	
12	b2664	Difenoconazole	166	GOICDS_C DS0045	Cinidon-ethly
12	b2664	Epoxiconazole	166	GOICDS_C DS0045	Cinmethylin
12	b2664	Fluquinconazole	166	GOICDS_C DS0045	Dicamba
12	b2664	Metconazol	166	GOICDS_C DS0045	Diflufenzopyr
12	b2664	Propiconazole	166	GOICDS_C DS0045	Quinclorac
12	b2664	Prothioconazole	166	GOICDS_C DS0045	Quinmerac
12	b2664	Tebuconazole	166	GOICDS_C DS0045	Mesotrione
12	b2664	Triticonazole	166	GOICDS_C DS0045	Saflufenacil
12	b2664	Prochloraz	166	GOICDS_C DS0045	Topramezone;
12	b2664	Carbendazim	167	GOICDS_C DS0185	acephate
12	b2664	Cyprodinil	167	GOICDS_C DS0185	chlorpyrifos
12	b2664	Pyrimethanil	167	GOICDS_C DS0185	dimethoate
12	b2664	Fenpropimorph	167	GOICDS_C DS0185	methamidophos
12	b2664	Tridemorph	167	GOICDS_C DS0185	terbufos
12	b2664	Iprodione	167	GOICDS_C DS0185	aldicarb
12	b2664	5-ethyl-6-octyl-[1,2,4] triazolo[1,5-a]pyri- midine-7-ylamine	167	GOICDS_C DS0185	carbofuran
12	b2664	Mancozeb	167	GOICDS_C DS0185	bifenthrin
12	b2664	Maneb	167	GOICDS_C DS0185	cypermethrin
12	b2664	Metiram	167	GOICDS_C DS0185	alpha-cypermethrin
12	b2664	Dithianon	167	GOICDS_C DS0185	deltamethrin
12	b2664	Chlorothalonil	167	GOICDS_C DS0185	lambda-cyhalothrin
12	b2664	ThiophanateMethyl	167	GOICDS_C	tefluthrin

				DS0185	
12	b2664	Cymoxanil	167	GOICDS_C DS0185	flufenoxuron
12	b2664	Metrafenone	167	GOICDS_C DS0185	teflubenzuron
12	b2664	Acetochlor	167	GOICDS_C DS0185	spirotetramat;
12	b2664	Dimethenamid	167	GOICDS_C DS0185	clothianidin
12	b2664	Metolachlor	167	GOICDS_C DS0185	imidacloprid
12	b2664	Metazachlor	167	GOICDS_C DS0185	thiamethoxam
12	b2664	Glyphosate	167	GOICDS_C DS0185	endosulfan
12	b2664	Glufosinate	167	GOICDS_C DS0185	fipronil
12	b2664	Sulfosate	167	GOICDS_C DS0185	abamectin
12	b2664	Fenoxaprop	167	GOICDS_C DS0185	spinosad
12	b2664	Paraquat	167	GOICDS_C DS0185	spinetoram
12	b2664	Cycloxydim	167	GOICDS_C DS0185	hydramethylnon;
12	b2664	Profoxydim	167	GOICDS_C DS0185	chlorfenapyr;
12	b2664	Sethoxydim	167	GOICDS_C DS0185	indoxacarb
12	b2664	Tepraloxydim	167	GOICDS_C DS0185	metaflumizone
12	b2664	Pendimethalin	167	GOICDS_C DS0185	flubendiamide
12	b2664	Acifluorfen	167	GOICDS_C DS0185	chlorantraniliprole
12	b2664	Imazamethabenz	167	GOICDS_C DS0185	cyazypyr(HGW86)
12	b2664	Imazamox	167	GOICDS_C DS0185	Azoxystrobin
12	b2664	Imazapic	167	GOICDS_C DS0185	Dimoxystrobin
12	b2664	Imazapyr	167	GOICDS_C DS0185	Kresoxim-methyl
12	b2664	Imazaquin	167	GOICDS_C DS0185	Orysastrobin

12	b2664	Imazethapyr	167	GOICDS_C DS0185	Pyraclostrobin
12	b2664	2,4-D	167	GOICDS_C DS0185	Trifloxystrobin
12	b2664	Chloridazon	167	GOICDS_C DS0185	Bixafen
12	b2664	Picloram	167	GOICDS_C DS0185	Boscalid
12	b2664	Picolinafen	167	GOICDS_C DS0185	Isopyrazam
12	b2664	Cyclosulfamuron	167	GOICDS_C DS0185	Metalaxyl
12	b2664	Triflusulfuron	167	GOICDS_C DS0185	Penthiopyrad
12	b2664	Atrazine	167	GOICDS_C DS0185	3-Difluoromethyl-1-methyl-1H-pyrazole-4-carboxylic acid(2',4',5'-trifluoro-biphenyl-2-yl)-amide
12	b2664	Pyroxasulfone	167	GOICDS_C DS0185	Dimethomorph
12	b2664	Bentazone	167	GOICDS_C DS0185	Difenoconazole
12	b2664	Cinidon-ethly	167	GOICDS_C DS0185	Epoxiconazole
12	b2664	Cinmethylin	167	GOICDS_C DS0185	Fluquinconazole
12	b2664	Dicamba	167	GOICDS_C DS0185	Metconazol
12	b2664	Diflufenzopyr	167	GOICDS_C DS0185	Propiconazole
12	b2664	Quinclorac	167	GOICDS_C DS0185	Prothioconazole
12	b2664	Quinmerac	167	GOICDS_C DS0185	Tebuconazole
12	b2664	Mesotrione	167	GOICDS_C DS0185	Triticonazole
12	b2664	Saflufenacil	167	GOICDS_C DS0185	Prochloraz
12	b2664	Topramezone;	167	GOICDS_C DS0185	Carbendazim
16	b2796	acephate	167	GOICDS_C DS0185	Cyprodinil
16	b2796	chlorpyrifos	167	GOICDS_C DS0185	Pyrimethanil
16	b2796	dimethoate	167	GOICDS_C	Fenpropimorph

				DS0185	
16	b2796	methamidophos	167	GOICDS_C DS0185	Tridemorph
16	b2796	terbufos	167	GOICDS_C DS0185	Iprodione
16	b2796	aldicarb	167	GOICDS_C DS0185	5-ethyl-6-octyl-[1,2,4] triazolo[1,5-a]pyri- midine-7-ylamine
16	b2796	carbofuran	167	GOICDS_C DS0185	Mancozeb
16	b2796	bifenthrin	167	GOICDS_C DS0185	Maneb
16	b2796	cypermethrin	167	GOICDS_C DS0185	Metiram
16	b2796	alpha-cypermethrin	167	GOICDS_C DS0185	Dithianon
16	b2796	deltamethrin	167	GOICDS_C DS0185	Chlorothalonil
16	b2796	lambda-cyhalothrin	167	GOICDS_C DS0185	ThiophanateMethyl
16	b2796	tefluthrin	167	GOICDS_C DS0185	Cymoxanil
16	b2796	flufenoxuron	167	GOICDS_C DS0185	Metrafenone
16	b2796	teflubenzuron	167	GOICDS_C DS0185	Acetochlor
16	b2796	spirotetramat;	167	GOICDS_C DS0185	Dimethenamid
16	b2796	clothianidin	167	GOICDS_C DS0185	Metolachlor
16	b2796	imidacloprid	167	GOICDS_C DS0185	Metazachlor
16	b2796	thiamethoxam	167	GOICDS_C DS0185	Glyphosate
16	b2796	endosulfan	167	GOICDS_C DS0185	Glufosinate
16	b2796	fipronil	167	GOICDS_C DS0185	Sulfosate
16	b2796	abamectin	167	GOICDS_C DS0185	Fenoxaprop
16	b2796	spinosad	167	GOICDS_C DS0185	Paraquat
16	b2796	spinetoram	167	GOICDS_C DS0185	Cycloxydim
16	b2796	hydramethylnon;	167	GOICDS_C	Profoxydim

				DS0185	
16	b2796	chlorfenapyr;	167	GOICDS_C DS0185	Sethoxydim
16	b2796	indoxacarb	167	GOICDS_C DS0185	Tepraloxydim
16	b2796	metaflumizone	167	GOICDS_C DS0185	Pendimethalin
16	b2796	flubendiamide	167	GOICDS_C DS0185	Acifluorfen
16	b2796	chlorantraniliprole	167	GOICDS_C DS0185	Imazamethabenz
16	b2796	cyazypyr(HGW86)	167	GOICDS_C DS0185	Imazamox
16	b2796	Azoxystrobin	167	GOICDS_C DS0185	Imazapic
16	b2796	Dimoxystrobin	167	GOICDS_C DS0185	Imazapyr
16	b2796	Kresoxim-methyl	167	GOICDS_C DS0185	Imazaquin
16	b2796	Orysastrobin	167	GOICDS_C DS0185	Imazethapyr
16	b2796	Pyraclostrobin	167	GOICDS_C DS0185	2,4-D
16	b2796	Trifloxystrobin	167	GOICDS_C DS0185	Chloridazon
16	b2796	Bixafen	167	GOICDS_C DS0185	Picloram
16	b2796	Boscalid	167	GOICDS_C DS0185	Picolinafen
16	b2796	Isopyrazam	167	GOICDS_C DS0185	Cyclosulfamuron
16	b2796	Metalaxyl	167	GOICDS_C DS0185	Triflusulfuron
16	b2796	Penthiopyrad	167	GOICDS_C DS0185	Atrazine
16	b2796	3-Difluoromethyl-1-methyl-1H-pyrazole-4-carboxylic acid(2',4',5'-trifluorobiphenyl-2-yl)-amide	167	GOICDS_C DS0185	Pyroxasulfone
16	b2796	Dimethomorph	167	GOICDS_C DS0185	Bentazone
16	b2796	Difenoconazole	167	GOICDS_C DS0185	Cinidon-ethyl
16	b2796	Epoxiconazole	167	GOICDS_C DS0185	Cinmethylin

16	b2796	Fluquinconazole	167	GOICDS_C DS0185	Dicamba
16	b2796	Metconazol	167	GOICDS_C DS0185	Diflufenzopyr
16	b2796	Propiconazole	167	GOICDS_C DS0185	Quinclorac
16	b2796	Prothioconazole	167	GOICDS_C DS0185	Quinmerac
16	b2796	Tebuconazole	167	GOICDS_C DS0185	Mesotrione
16	b2796	Triticonazole	167	GOICDS_C DS0185	Saflufenacil
16	b2796	Prochloraz	167	GOICDS_C DS0185	Topramezone;
16	b2796	Carbendazim	168		acephate
16	b2796	Cyprodinil	168		chlorpyrifos
16	b2796	Pyrimethanil	168		dimethoate
16	b2796	Fenpropimorph	168		methamidophos
16	b2796	Tridemorph	168		terbufos
16	b2796	Iprodione	168		aldicarb
16	b2796	5-ethyl-6-octyl-[1,2,4] triazolo[1,5-a]pyri- midine-7-ylamine	168		carbofuran
16	b2796	Mancozeb	168		bifenthrin
16	b2796	Maneb	168		cypermethrin
16	b2796	Metiram	168		alpha-cypermethrin
16	b2796	Dithianon	168		deltamethrin
16	b2796	Chlorothalonil	168		lambda-cyhalothrin
16	b2796	ThiophanateMethyl	168		tefluthrin
16	b2796	Cymoxanil	168		flufenoxuron
16	b2796	Metrafenone	168		teflubenzuron
16	b2796	Acetochlor	168		spirotetramat;
16	b2796	Dimethenamid	168		clothianidin
16	b2796	Metolachlor	168		imidaclopid
16	b2796	Metazachlor	168		thiamethoxam
16	b2796	Glyphosate	168		endosulfan
16	b2796	Glufosinate	168		fipronil
16	b2796	Sulfosate	168		abamectin
16	b2796	Fenoxaprop	168		spinosad
16	b2796	Paraquat	168		spinetoram
16	b2796	Cycloxydim	168		hydramethylnon;

16	b2796	Profoxydim	168		chlorfenapyr;
16	b2796	Sethoxydim	168		indoxacarb
16	b2796	Tepraloxydim	168		metaflumizone
16	b2796	Pendimethalin	168		flubendiamide
16	b2796	Acifluorfen	168		chlorantraniliprole
16	b2796	Imazamethabenz	168		cyazypyr(HGW86)
16	b2796	Imazamox	168		Azoxystrobin
16	b2796	Imazapic	168		Dimoxystrobin
16	b2796	Imazapyr	168		Kresoxim-methyl
16	b2796	Imazaquin	168		Orysastrobin
16	b2796	Imazethapyr	168		Pyraclostrobin
16	b2796	2,4-D	168		Trifloxystrobin
16	b2796	Chloridazon	168		Bixafen
16	b2796	Picloram	168		Boscalid
16	b2796	Picolinafen	168		Isopyrazam
16	b2796	Cyclosulfamuron	168		Metalaxyl
16	b2796	Triflusulfuron	168		Penthiopyrad
16	b2796	Atrazine	168		3-Difluoromethyl-1-methyl-1H-pyrazole-4-carboxylic acid(2',4',5'-trifluoro-biphenyl-2-yl)-amide
16	b2796	Pyroxasulfone	168		Dimethomorph
16	b2796	Bentazone	168		Difenoconazole
16	b2796	Cinidon-ethyl	168		Epoxiconazole
16	b2796	Cinmethylin	168		Fluquinconazole
16	b2796	Dicamba	168		Metconazol
16	b2796	Diflufenzopyr	168		Propiconazole
16	b2796	Quinclorac	168		Prothioconazole
16	b2796	Quinmerac	168		Tebuconazole
16	b2796	Mesotrione	168		Triticonazole
16	b2796	Saflufenacil	168		Prochloraz
16	b2796	Topramezone;	168		Carbendazim
19	EST102	acephate	168		Cyprodinil
19	EST102	chlorpyrifos	168		Pyrimethanil
19	EST102	dimethoate	168		Fenpropimorph
19	EST102	methamidophos	168		Tridemorph
19	EST102	terbufos	168		Iprodione
19	EST102	aldicarb	168		5-ethyl-6-octyl-[1,2,4] triazolo[1,5-a]pyri-

					midine-7-ylamine
19	EST102	carbofuran	168		Mancozeb
19	EST102	bifenthrin	168		Maneb
19	EST102	cypermethrin	168		Metiram
19	EST102	alpha-cypermethrin	168		Dithianon
19	EST102	deltamethrin	168		Chlorothalonil
19	EST102	lambda-cyhalothrin	168		ThiophanateMethyl
19	EST102	tefluthrin	168		Cymoxanil
19	EST102	flufenoxuron	168		Metrafenone
19	EST102	teflubenzuron	168		Acetochlor
19	EST102	spirotetramat;	168		Dimethenamid
19	EST102	clothianidin	168		Metolachlor
19	EST102	imidacloprid	168		Metazachlor
19	EST102	thiamethoxam	168		Glyphosate
19	EST102	endosulfan	168		Glufosinate
19	EST102	fipronil	168		Sulfosate
19	EST102	abamectin	168		Fenoxaprop
19	EST102	spinosad	168		Paraquat
19	EST102	spinetoram	168		Cycloxydim
19	EST102	hydramethylnon;	168		Profoxydim
19	EST102	chlorfenapyr;	168		Sethoxydim
19	EST102	indoxacarb	168		Tepraloxydim
19	EST102	metaflumizone	168		Pendimethalin
19	EST102	flubendiamide	168		Acifluorfen
19	EST102	chlorantraniliprole	168		Imazamethabenz
19	EST102	cyazypyr(HGW86)	168		Imazamox
19	EST102	Azoxystrobin	168		Imazapic
19	EST102	Dimoxystrobin	168		Imazapyr
19	EST102	Kresoxim-methyl	168		Imazaquin
19	EST102	Orysastrobin	168		Imazethapyr
19	EST102	Pyraclostrobin	168		2,4-D
19	EST102	Trifloxystrobin	168		Chloridazon
19	EST102	Bixafen	168		Picloram
19	EST102	Boscalid	168		Picolinafen
19	EST102	Isopyrazam	168		Cyclosulfamuron
19	EST102	Metalaxyl	168		Triflusulfuron
19	EST102	Penthiopyrad	168		Atrazine
19	EST102	3-Difluoromethyl-1-methyl-1H-pyrazole-	168		Pyroxasulfone

		4-carboxylic acid(2',4',5'-trifluoro-biphenyl-2-yl)-amide			
19	EST102	Dimethomorph	168		Bentazone
19	EST102	Difenoconazole	168		Cinidon-ethly
19	EST102	Epoxiconazole	168		Cinmethylin
19	EST102	Fluquinconazole	168		Dicamba
19	EST102	Metconazol	168		Diflufenzopyr
19	EST102	Propiconazole	168		Quinclorac
19	EST102	Prothioconazole	168		Quinmerac
19	EST102	Tebuconazole	168		Mesotrione
19	EST102	Triticonazole	168		Saflufenacil
19	EST102	Prochloraz	168		Topramezone;
19	EST102	Carbendazim	169		acephate
19	EST102	Cyprodinil	169		chlorpyrifos
19	EST102	Pyrimethanil	169		dimethoate
19	EST102	Fenpropimorph	169		methamidophos
19	EST102	Tridemorph	169		terbufos
19	EST102	Iprodione	169		aldicarb
19	EST102	5-ethyl-6-octyl-[1,2,4] triazolo[1,5-a]pyrimidine-7-ylamine	169		carbofuran
19	EST102	Mancozeb	169		bifenthrin
19	EST102	Maneb	169		cypermethrin
19	EST102	Metiram	169		alpha-cypermethrin
19	EST102	Dithianon	169		deltamethrin
19	EST102	Chlorothalonil	169		lambda-cyhalothrin
19	EST102	ThiophanateMethyl	169		tefluthrin
19	EST102	Cymoxanil	169		flufenoxuron
19	EST102	Metrafenone	169		teflubenzuron
19	EST102	Acetochlor	169		spirotetramat;
19	EST102	Dimethenamid	169		clothianidin
19	EST102	Metolachlor	169		imidacloprid
19	EST102	Metazachlor	169		thiamethoxam
19	EST102	Glyphosate	169		endosulfan
19	EST102	Glufosinate	169		fipronil
19	EST102	Sulfosate	169		abamectin
19	EST102	Fenoxaprop	169		spinosad
19	EST102	Paraquat	169		spinetoram
19	EST102	Cycloxydim	169		hydramethylnon;

19	EST102	Profoxydim	169	chlorfenapyr;
19	EST102	Sethoxydim	169	indoxacarb
19	EST102	Tepraloxydim	169	metaflumizone
19	EST102	Pendimethalin	169	flubendiamide
19	EST102	Acifluorfen	169	chlorantraniliprole
19	EST102	Imazamethabenz	169	cyazypyr(HGW86)
19	EST102	Imazamox	169	Azoxystrobin
19	EST102	Imazapic	169	Dimoxystrobin
19	EST102	Imazapyr	169	Kresoxim-methyl
19	EST102	Imazaquin	169	Orysastrobin
19	EST102	Imazethapyr	169	Pyraclostrobin
19	EST102	2,4-D	169	Trifloxystrobin
19	EST102	Chloridazon	169	Bixafen
19	EST102	Picloram	169	Boscalid
19	EST102	Picolinafen	169	Isopyrazam
19	EST102	Cyclosulfamuron	169	Metalaxyl
19	EST102	Triflusulfuron	169	Penthiopyrad
19	EST102	Atrazine	169	3-Difluoromethyl-1-methyl-1H-pyrazole-4-carboxylic acid(2',4',5'-trifluoro-biphenyl-2-yl)-amide
19	EST102	Pyroxasulfone	169	Dimethomorph
19	EST102	Bentazone	169	Difenoconazole
19	EST102	Cinidon-ethyl	169	Epoxiconazole
19	EST102	Cinmethylin	169	Fluquinconazole
19	EST102	Dicamba	169	Metconazol
19	EST102	Diflufenzopyr	169	Propiconazole
19	EST102	Quinclorac	169	Prothioconazole
19	EST102	Quinmerac	169	Tebuconazole
19	EST102	Mesotrione	169	Triticonazole
19	EST102	Saflufenacil	169	Prochloraz
19	EST102	Topramezone;	169	Carbendazim
20	EST12	acephate	169	Cyprodinil
20	EST12	chlorpyrifos	169	Pyrimethanil
20	EST12	dimethoate	169	Fenpropimorph
20	EST12	methamidophos	169	Tridemorph
20	EST12	terbufos	169	Iprodione
20	EST12	aldicarb	169	5-ethyl-6-octyl-[1,2,4] triazolo[1,5-a]pyri-

					midine-7-ylamine
20	EST12	carbofuran	169		Mancozeb
20	EST12	bifenthrin	169		Maneb
20	EST12	cypermethrin	169		Metiram
20	EST12	alpha-cypermethrin	169		Dithianon
20	EST12	deltamethrin	169		Chlorothalonil
20	EST12	lambda-cyhalothrin	169		ThiophanateMethyl
20	EST12	tefluthrin	169		Cymoxanil
20	EST12	flufenoxuron	169		Metrafenone
20	EST12	teflubenzuron	169		Acetochlor
20	EST12	spirotetramat;	169		Dimethenamid
20	EST12	clothianidin	169		Metolachlor
20	EST12	imidacloprid	169		Metazachlor
20	EST12	thiamethoxam	169		Glyphosate
20	EST12	endosulfan	169		Glufosinate
20	EST12	fipronil	169		Sulfosate
20	EST12	abamectin	169		Fenoxaprop
20	EST12	spinosad	169		Paraquat
20	EST12	spinetoram	169		Cycloxydim
20	EST12	hydramethylnon;	169		Profoxydim
20	EST12	chlorfenapyr;	169		Sethoxydim
20	EST12	indoxacarb	169		Tepraloxydim
20	EST12	metaflumizone	169		Pendimethalin
20	EST12	flubendiamide	169		Acifluorfen
20	EST12	chlorantraniliprole	169		Imazamethabenz
20	EST12	cyazypyr(HGW86)	169		Imazamox
20	EST12	Azoxystrobin	169		Imazapic
20	EST12	Dimoxystrobin	169		Imazapyr
20	EST12	Kresoxim-methyl	169		Imazaquin
20	EST12	Orysastrobin	169		Imazethapyr
20	EST12	Pyraclostrobin	169		2,4-D
20	EST12	Trifloxystrobin	169		Chloridazon
20	EST12	Bixafen	169		Picloram
20	EST12	Boscalid	169		Picolinafen
20	EST12	Isopyrazam	169		Cyclosulfamuron
20	EST12	Metalaxyl	169		Triflusulfuron
20	EST12	Penthiopyrad	169		Atrazine
20	EST12	3-Difluoromethyl-1- methyl-1H-pyrazole-	169		Pyroxasulfone

		4-carboxylic acid(2',4',5'-trifluoro-biphenyl-2-yl)-amide			
20	EST12	Dimethomorph	169		Bentazone
20	EST12	Difenoconazole	169		Cinidon-ethly
20	EST12	Epoxiconazole	169		Cinmethylin
20	EST12	Fluquinconazole	169		Dicamba
20	EST12	Metconazol	169		Diflufenzopyr
20	EST12	Propiconazole	169		Quinclorac
20	EST12	Prothioconazole	169		Quinmerac
20	EST12	Tebuconazole	169		Mesotrione
20	EST12	Triticonazole	169		Saflufenacil
20	EST12	Prochloraz	169		Topramezone;
20	EST12	Carbendazim	170	GOICDS_C DS0647	acephate
20	EST12	Cyprodinil	170	GOICDS_C DS0647	chlorpyrifos
20	EST12	Pyrimethanil	170	GOICDS_C DS0647	dimethoate
20	EST12	Fenpropimorph	170	GOICDS_C DS0647	methamidophos
20	EST12	Tridemorph	170	GOICDS_C DS0647	terbufos
20	EST12	Iprodione	170	GOICDS_C DS0647	aldicarb
20	EST12	5-ethyl-6-octyl-[1,2,4] triazolo[1,5-a]pyrimidine-7-ylamine	170	GOICDS_C DS0647	carbofuran
20	EST12	Mancozeb	170	GOICDS_C DS0647	bifenthrin
20	EST12	Maneb	170	GOICDS_C DS0647	cypermethrin
20	EST12	Metiram	170	GOICDS_C DS0647	alpha-cypermethrin
20	EST12	Dithianon	170	GOICDS_C DS0647	deltamethrin
20	EST12	Chlorothalonil	170	GOICDS_C DS0647	lambda-cyhalothrin
20	EST12	ThiophanateMethyl	170	GOICDS_C DS0647	tefluthrin
20	EST12	Cymoxanil	170	GOICDS_C DS0647	flufenoxuron
20	EST12	Metrafenone	170	GOICDS_C DS0647	teflubenzuron

20	EST12	Acetochlor	170	GOICDS_C DS0647	spirotetramat;
20	EST12	Dimethenamid	170	GOICDS_C DS0647	clothianidin
20	EST12	Metolachlor	170	GOICDS_C DS0647	imidacloprid
20	EST12	Metazachlor	170	GOICDS_C DS0647	thiamethoxam
20	EST12	Glyphosate	170	GOICDS_C DS0647	endosulfan
20	EST12	Glufosinate	170	GOICDS_C DS0647	fipronil
20	EST12	Sulfosate	170	GOICDS_C DS0647	abamectin
20	EST12	Fenoxaprop	170	GOICDS_C DS0647	spinosad
20	EST12	Paraquat	170	GOICDS_C DS0647	spinetoram
20	EST12	Cycloxydim	170	GOICDS_C DS0647	hydramethylnon;
20	EST12	Profoxydim	170	GOICDS_C DS0647	chlorfenapyr;
20	EST12	Sethoxydim	170	GOICDS_C DS0647	indoxacarb
20	EST12	Tepraloxydim	170	GOICDS_C DS0647	metaflumizone
20	EST12	Pendimethalin	170	GOICDS_C DS0647	flubendiamide
20	EST12	Acifluorfen	170	GOICDS_C DS0647	chlorantraniliprole
20	EST12	Imazamethabenz	170	GOICDS_C DS0647	cyazypyr(HGW86)
20	EST12	Imazamox	170	GOICDS_C DS0647	Azoxystrobin
20	EST12	Imazapic	170	GOICDS_C DS0647	Dimoxystrobin
20	EST12	Imazapyr	170	GOICDS_C DS0647	Kresoxim-methyl
20	EST12	Imazaquin	170	GOICDS_C DS0647	Orysastrobin
20	EST12	Imazethapyr	170	GOICDS_C DS0647	Pyraclostrobin
20	EST12	2,4-D	170	GOICDS_C DS0647	Trifloxystrobin
20	EST12	Chloridazon	170	GOICDS_C	Bixafen

				DS0647	
20	EST12	Picloram	170	GOICDS_C DS0647	Boscalid
20	EST12	Picolinafen	170	GOICDS_C DS0647	Isopyrazam
20	EST12	Cyclosulfamuron	170	GOICDS_C DS0647	Metalaxyl
20	EST12	Triflusulfuron	170	GOICDS_C DS0647	Penthiopyrad
20	EST12	Atrazine	170	GOICDS_C DS0647	3-Difluoromethyl-1-methyl-1H-pyrazole-4-carboxylic acid(2',4',5'-trifluorobiphenyl-2-yl)-amide
20	EST12	Pyroxasulfone	170	GOICDS_C DS0647	Dimethomorph
20	EST12	Bentazone	170	GOICDS_C DS0647	Difenoconazole
20	EST12	Cinidon-ethyl	170	GOICDS_C DS0647	Epoxiconazole
20	EST12	Cinmethylin	170	GOICDS_C DS0647	Fluquinconazole
20	EST12	Dicamba	170	GOICDS_C DS0647	Metconazol
20	EST12	Diflufenzopyr	170	GOICDS_C DS0647	Propiconazole
20	EST12	Quinclorac	170	GOICDS_C DS0647	Prothioconazole
20	EST12	Quinmerac	170	GOICDS_C DS0647	Tebuconazole
20	EST12	Mesotrione	170	GOICDS_C DS0647	Triticonazole
20	EST12	Saflufenacil	170	GOICDS_C DS0647	Prochloraz
20	EST12	Topramezone;	170	GOICDS_C DS0647	Carbendazim
21	EST134	acephate	170	GOICDS_C DS0647	Cyprodinil
21	EST134	chlorpyrifos	170	GOICDS_C DS0647	Pyrimethanil
21	EST134	dimethoate	170	GOICDS_C DS0647	Fenpropimorph
21	EST134	methamidophos	170	GOICDS_C DS0647	Tridemorph
21	EST134	terbufos	170	GOICDS_C DS0647	Iprodione

21	EST134	aldicarb	170	GOICDS_C DS0647	5-ethyl-6-octyl-[1,2,4] triazolo[1,5-a]pyri- midine-7-ylamine
21	EST134	carbofuran	170	GOICDS_C DS0647	Mancozeb
21	EST134	bifenthrin	170	GOICDS_C DS0647	Maneb
21	EST134	cypermethrin	170	GOICDS_C DS0647	Metiram
21	EST134	alpha-cypermethrin	170	GOICDS_C DS0647	Dithianon
21	EST134	deltamethrin	170	GOICDS_C DS0647	Chlorothalonil
21	EST134	lambda-cyhalothrin	170	GOICDS_C DS0647	ThiophanateMethyl
21	EST134	tefluthrin	170	GOICDS_C DS0647	Cymoxanil
21	EST134	flufenoxuron	170	GOICDS_C DS0647	Metrafenone
21	EST134	teflubenzuron	170	GOICDS_C DS0647	Acetochlor
21	EST134	spirotetramat;	170	GOICDS_C DS0647	Dimethenamid
21	EST134	clothianidin	170	GOICDS_C DS0647	Metolachlor
21	EST134	imidacloprid	170	GOICDS_C DS0647	Metazachlor
21	EST134	thiamethoxam	170	GOICDS_C DS0647	Glyphosate
21	EST134	endosulfan	170	GOICDS_C DS0647	Glufosinate
21	EST134	fipronil	170	GOICDS_C DS0647	Sulfosate
21	EST134	abamectin	170	GOICDS_C DS0647	Fenoxaprop
21	EST134	spinosad	170	GOICDS_C DS0647	Paraquat
21	EST134	spinetoram	170	GOICDS_C DS0647	Cycloxydim
21	EST134	hydramethylnon;	170	GOICDS_C DS0647	Profoxydim
21	EST134	chlorfenapyr;	170	GOICDS_C DS0647	Sethoxydim
21	EST134	indoxacarb	170	GOICDS_C DS0647	Tepraloxydim

21	EST134	metaflumizone	170	GOICDS_C DS0647	Pendimethalin
21	EST134	flubendiamide	170	GOICDS_C DS0647	Acifluorfen
21	EST134	chlorantraniliprole	170	GOICDS_C DS0647	Imazamethabenz
21	EST134	cyazypyr(HGW86)	170	GOICDS_C DS0647	Imazamox
21	EST134	Azoxystrobin	170	GOICDS_C DS0647	Imazapic
21	EST134	Dimoxystrobin	170	GOICDS_C DS0647	Imazapyr
21	EST134	Kresoxim-methyl	170	GOICDS_C DS0647	Imazaquin
21	EST134	Orysastrobin	170	GOICDS_C DS0647	Imazethapyr
21	EST134	Pyraclostrobin	170	GOICDS_C DS0647	2,4-D
21	EST134	Trifloxystrobin	170	GOICDS_C DS0647	Chloridazon
21	EST134	Bixafen	170	GOICDS_C DS0647	Picloram
21	EST134	Boscalid	170	GOICDS_C DS0647	Picolinafen
21	EST134	Isopyrazam	170	GOICDS_C DS0647	Cyclosulfamuron
21	EST134	Metalaxyl	170	GOICDS_C DS0647	Triflusulfuron
21	EST134	Penthiopyrad	170	GOICDS_C DS0647	Atrazine
21	EST134	3-Difluoromethyl-1-methyl-1H-pyrazole-4-carboxylic acid(2',4',5'-trifluoro-biphenyl-2-yl)-amide	170	GOICDS_C DS0647	Pyroxasulfone
21	EST134	Dimethomorph	170	GOICDS_C DS0647	Bentazone
21	EST134	Difenoconazole	170	GOICDS_C DS0647	Cinidon-ethly
21	EST134	Epoxiconazole	170	GOICDS_C DS0647	Cinmethylin
21	EST134	Fluquinconazole	170	GOICDS_C DS0647	Dicamba
21	EST134	Metconazol	170	GOICDS_C DS0647	Diflufenzopyr
21	EST134	Propiconazole	170	GOICDS_C	Quinclorac

				DS0647	
21	EST134	Prothioconazole	170	GOICDS_C DS0647	Quinmerac
21	EST134	Tebuconazole	170	GOICDS_C DS0647	Mesotrione
21	EST134	Triticonazole	170	GOICDS_C DS0647	Saflufenacil
21	EST134	Prochloraz	170	GOICDS_C DS0647	Topramezone;
21	EST134	Carbendazim	171		acephate
21	EST134	Cyprodinil	171		chlorpyrifos
21	EST134	Pyrimethanil	171		dimethoate
21	EST134	Fenpropimorph	171		methamidophos
21	EST134	Tridemorph	171		terbufos
21	EST134	Iprodione	171		aldicarb
21	EST134	5-ethyl-6-octyl-[1,2,4] triazolo[1,5-a]pyri- midine-7-ylamine	171		carbofuran
21	EST134	Mancozeb	171		bifenthrin
21	EST134	Maneb	171		cypermethrin
21	EST134	Metiram	171		alpha-cypermethrin
21	EST134	Dithianon	171		deltamethrin
21	EST134	Chlorothalonil	171		lambda-cyhalothrin
21	EST134	ThiophanateMethyl	171		tefluthrin
21	EST134	Cymoxanil	171		flufenoxuron
21	EST134	Metrafenone	171		teflubenzuron
21	EST134	Acetochlor	171		spirotetramat;
21	EST134	Dimethenamid	171		clothianidin
21	EST134	Metolachlor	171		imidacloprid
21	EST134	Metazachlor	171		thiamethoxam
21	EST134	Glyphosate	171		endosulfan
21	EST134	Glufosinate	171		fipronil
21	EST134	Sulfosate	171		abamectin
21	EST134	Fenoxaprop	171		spinosad
21	EST134	Paraquat	171		spinetoram
21	EST134	Cycloxydim	171		hydramethylnon;
21	EST134	Profoxydim	171		chlorfenapyr;
21	EST134	Sethoxydim	171		indoxacarb
21	EST134	Tepraloxydim	171		metaflumizone
21	EST134	Pendimethalin	171		flubendiamide

21	EST134	Acifluorfen	171		chlorantraniliprole
21	EST134	Imazamethabenz	171		cyazypyr(HGW86)
21	EST134	Imazamox	171		Azoxystrobin
21	EST134	Imazapic	171		Dimoxystrobin
21	EST134	Imazapyr	171		Kresoxim-methyl
21	EST134	Imazaquin	171		Orysastrobin
21	EST134	Imazethapyr	171		Pyraclostrobin
21	EST134	2,4-D	171		Trifloxystrobin
21	EST134	Chloridazon	171		Bixafen
21	EST134	Picloram	171		Boscalid
21	EST134	Picolinafen	171		Isopyrazam
21	EST134	Cyclosulfamuron	171		Metalaxyl
21	EST134	Triflusulfuron	171		Penthiopyrad
21	EST134	Atrazine	171		3-Difluoromethyl-1-methyl-1H-pyrazole-4-carboxylic acid(2',4',5'-trifluoro-biphenyl-2-yl)-amide
21	EST134	Pyroxasulfone	171		Dimethomorph
21	EST134	Bentazone	171		Difenoconazole
21	EST134	Cinidon-ethyl	171		Epoxiconazole
21	EST134	Cinmethylin	171		Fluquinconazole
21	EST134	Dicamba	171		Metconazol
21	EST134	Diflufenzopyr	171		Propiconazole
21	EST134	Quinclorac	171		Prothioconazole
21	EST134	Quinmerac	171		Tebuconazole
21	EST134	Mesotrione	171		Triticonazole
21	EST134	Saflufenacil	171		Prochloraz
21	EST134	Topramezone;	171		Carbendazim
23	EST163	acephate	171		Cyprodinil
23	EST163	chlorpyrifos	171		Pyrimethanil
23	EST163	dimethoate	171		Fenpropimorph
23	EST163	methamidophos	171		Tridemorph
23	EST163	terbufos	171		Iprodione
23	EST163	aldicarb	171		5-ethyl-6-octyl-[1,2,4] triazolo[1,5-a]pyrimidine-7-ylamine
23	EST163	carbofuran	171		Mancozeb
23	EST163	bifenthrin	171		Maneb
23	EST163	cypermethrin	171		Metiram

23	EST163	alpha-cypermethrin	171		Dithianon
23	EST163	deltamethrin	171		Chlorothalonil
23	EST163	lambda-cyhalothrin	171		ThiophanateMethyl
23	EST163	tefluthrin	171		Cymoxanil
23	EST163	flufenoxuron	171		Metrafenone
23	EST163	teflubenzuron	171		Acetochlor
23	EST163	spirotetramat;	171		Dimethenamid
23	EST163	clothianidin	171		Metolachlor
23	EST163	imidacloprid	171		Metazachlor
23	EST163	thiamethoxam	171		Glyphosate
23	EST163	endosulfan	171		Glufosinate
23	EST163	fipronil	171		Sulfosate
23	EST163	abamectin	171		Fenoxaprop
23	EST163	spinosad	171		Paraquat
23	EST163	spinetoram	171		Cycloxydim
23	EST163	hydramethylnon;	171		Profoxydim
23	EST163	chlorfenapyr;	171		Sethoxydim
23	EST163	indoxacarb	171		Tepraloxydim
23	EST163	metaflumizone	171		Pendimethalin
23	EST163	flubendiamide	171		Acifluorfen
23	EST163	chlorantraniliprole	171		Imazamethabenz
23	EST163	cyazypyr(HGW86)	171		Imazamox
23	EST163	Azoxystrobin	171		Imazapic
23	EST163	Dimoxystrobin	171		Imazapyr
23	EST163	Kresoxim-methyl	171		Imazaquin
23	EST163	Orysastrobin	171		Imazethapyr
23	EST163	Pyraclostrobin	171		2,4-D
23	EST163	Trifloxystrobin	171		Chloridazon
23	EST163	Bixafen	171		Picloram
23	EST163	Boscalid	171		Picolinafen
23	EST163	Isopyrazam	171		Cyclosulfamuron
23	EST163	Metalaxyl	171		Triflusulfuron
23	EST163	Penthiopyrad	171		Atrazine
23	EST163	3-Difluoromethyl-1-methyl-1H-pyrazole-4-carboxylic acid(2',4',5'-trifluorobiphenyl-2-yl)-amide	171		Pyroxasulfone
23	EST163	Dimethomorph	171		Bentazone
23	EST163	Difenoconazole	171		Cinidon-ethly

23	EST163	Epoxiconazole	171		Cinmethylin
23	EST163	Fluquinconazole	171		Dicamba
23	EST163	Metconazol	171		Diflufenzopyr
23	EST163	Propiconazole	171		Quinclorac
23	EST163	Prothioconazole	171		Quinmerac
23	EST163	Tebuconazole	171		Mesotrione
23	EST163	Triticonazole	171		Saflufenacil
23	EST163	Prochloraz	171		Topramezone;
23	EST163	Carbendazim	172	GOICDS_C DS1499_2	acephate
23	EST163	Cyprodinil	172	GOICDS_C DS1499_2	chlorpyrifos
23	EST163	Pyrimethanil	172	GOICDS_C DS1499_2	dimethoate
23	EST163	Fenpropimorph	172	GOICDS_C DS1499_2	methamidophos
23	EST163	Tridemorph	172	GOICDS_C DS1499_2	terbufos
23	EST163	Iprodione	172	GOICDS_C DS1499_2	aldicarb
23	EST163	5-ethyl-6-octyl-[1,2,4] triazolo[1,5-a]pyri- midine-7-ylamine	172	GOICDS_C DS1499_2	carbofuran
23	EST163	Mancozeb	172	GOICDS_C DS1499_2	bifenthrin
23	EST163	Maneb	172	GOICDS_C DS1499_2	cypermethrin
23	EST163	Metiram	172	GOICDS_C DS1499_2	alpha-cypermethrin
23	EST163	Dithianon	172	GOICDS_C DS1499_2	deltamethrin
23	EST163	Chlorothalonil	172	GOICDS_C DS1499_2	lambda-cyhalothrin
23	EST163	ThiophanateMethyl	172	GOICDS_C DS1499_2	tefluthrin
23	EST163	Cymoxanil	172	GOICDS_C DS1499_2	flufenoxuron
23	EST163	Metrafenone	172	GOICDS_C DS1499_2	teflubenzuron
23	EST163	Acetochlor	172	GOICDS_C DS1499_2	spirotetramat;
23	EST163	Dimethenamid	172	GOICDS_C DS1499_2	clothianidin
23	EST163	Metolachlor	172	GOICDS_C	imidacloprid

				DS1499_2	
23	EST163	Metazachlor	172	GOICDS_C DS1499_2	thiamethoxam
23	EST163	Glyphosate	172	GOICDS_C DS1499_2	endosulfan
23	EST163	Glufosinate	172	GOICDS_C DS1499_2	fipronil
23	EST163	Sulfosate	172	GOICDS_C DS1499_2	abamectin
23	EST163	Fenoxaprop	172	GOICDS_C DS1499_2	spinosad
23	EST163	Paraquat	172	GOICDS_C DS1499_2	spinetoram
23	EST163	Cycloxydim	172	GOICDS_C DS1499_2	hydramethylnon;
23	EST163	Profoxydim	172	GOICDS_C DS1499_2	chlorfenapyr;
23	EST163	Sethoxydim	172	GOICDS_C DS1499_2	indoxacarb
23	EST163	Tepraloxydim	172	GOICDS_C DS1499_2	metaflumizone
23	EST163	Pendimethalin	172	GOICDS_C DS1499_2	flubendiamide
23	EST163	Acifluorfen	172	GOICDS_C DS1499_2	chlorantraniliprole
23	EST163	Imazamethabenz	172	GOICDS_C DS1499_2	cyazypyr(HGW86)
23	EST163	Imazamox	172	GOICDS_C DS1499_2	Azoxystrobin
23	EST163	Imazapic	172	GOICDS_C DS1499_2	Dimoxystrobin
23	EST163	Imazapyr	172	GOICDS_C DS1499_2	Kresoxim-methyl
23	EST163	Imazaquin	172	GOICDS_C DS1499_2	Orysastrobin
23	EST163	Imazethapyr	172	GOICDS_C DS1499_2	Pyraclostrobin
23	EST163	2,4-D	172	GOICDS_C DS1499_2	Trifloxystrobin
23	EST163	Chloridazon	172	GOICDS_C DS1499_2	Bixafen
23	EST163	Picloram	172	GOICDS_C DS1499_2	Boscalid
23	EST163	Picolinafen	172	GOICDS_C DS1499_2	Isopyrazam

23	EST163	Cyclosulfamuron	172	GOICDS_C DS1499_2	Metalaxyl
23	EST163	Triflusulfuron	172	GOICDS_C DS1499_2	Penthiopyrad
23	EST163	Atrazine	172	GOICDS_C DS1499_2	3-Difluoromethyl-1-methyl-1H-pyrazole-4-carboxylic acid(2',4',5'-trifluorobiphenyl-2-yl)-amide
23	EST163	Pyroxasulfone	172	GOICDS_C DS1499_2	Dimethomorph
23	EST163	Bentazone	172	GOICDS_C DS1499_2	Difenoconazole
23	EST163	Cinidon-ethyl	172	GOICDS_C DS1499_2	Epoxiconazole
23	EST163	Cinmethylin	172	GOICDS_C DS1499_2	Fluquinconazole
23	EST163	Dicamba	172	GOICDS_C DS1499_2	Metconazol
23	EST163	Diflufenzopyr	172	GOICDS_C DS1499_2	Propiconazole
23	EST163	Quinclorac	172	GOICDS_C DS1499_2	Prothioconazole
23	EST163	Quinmerac	172	GOICDS_C DS1499_2	Tebuconazole
23	EST163	Mesotrione	172	GOICDS_C DS1499_2	Triticonazole
23	EST163	Saflufenacil	172	GOICDS_C DS1499_2	Prochloraz
23	EST163	Topramezone;	172	GOICDS_C DS1499_2	Carbendazim
25	EST217	acephate	172	GOICDS_C DS1499_2	Cyprodinil
25	EST217	chlorpyrifos	172	GOICDS_C DS1499_2	Pyrimethanil
25	EST217	dimethoate	172	GOICDS_C DS1499_2	Fenpropimorph
25	EST217	methamidophos	172	GOICDS_C DS1499_2	Tridemorph
25	EST217	terbufos	172	GOICDS_C DS1499_2	Iprodione
25	EST217	aldicarb	172	GOICDS_C DS1499_2	5-ethyl-6-octyl-[1,2,4] triazolo[1,5-a]pyrimidine-7-ylamine
25	EST217	carbofuran	172	GOICDS_C DS1499_2	Mancozeb

25	EST217	bifenthrin	172	GOICDS_C DS1499_2	Maneb
25	EST217	cypermethrin	172	GOICDS_C DS1499_2	Metiram
25	EST217	alpha-cypermethrin	172	GOICDS_C DS1499_2	Dithianon
25	EST217	deltamethrin	172	GOICDS_C DS1499_2	Chlorothalonil
25	EST217	lambda-cyhalothrin	172	GOICDS_C DS1499_2	ThiophanateMethyl
25	EST217	tefluthrin	172	GOICDS_C DS1499_2	Cymoxanil
25	EST217	flufenoxuron	172	GOICDS_C DS1499_2	Metrafenone
25	EST217	teflubenzuron	172	GOICDS_C DS1499_2	Acetochlor
25	EST217	spirotetramat;	172	GOICDS_C DS1499_2	Dimethenamid
25	EST217	clothianidin	172	GOICDS_C DS1499_2	Metolachlor
25	EST217	imidacloprid	172	GOICDS_C DS1499_2	Metazachlor
25	EST217	thiamethoxam	172	GOICDS_C DS1499_2	Glyphosate
25	EST217	endosulfan	172	GOICDS_C DS1499_2	Glufosinate
25	EST217	fipronil	172	GOICDS_C DS1499_2	Sulfosate
25	EST217	abamectin	172	GOICDS_C DS1499_2	Fenoxaprop
25	EST217	spinosad	172	GOICDS_C DS1499_2	Paraquat
25	EST217	spinetoram	172	GOICDS_C DS1499_2	Cycloxydim
25	EST217	hydramethylnon;	172	GOICDS_C DS1499_2	Profoxydim
25	EST217	chlorfenapyr;	172	GOICDS_C DS1499_2	Sethoxydim
25	EST217	indoxacarb	172	GOICDS_C DS1499_2	Tepraloxym
25	EST217	metaflumizone	172	GOICDS_C DS1499_2	Pendimethalin
25	EST217	flubendiamide	172	GOICDS_C DS1499_2	Acifluorfen
25	EST217	chlorantraniliprole	172	GOICDS_C	Imazamethabenz

				DS1499_2	
25	EST217	cyazypyr(HGW86)	172	GOICDS_C DS1499_2	Imazamox
25	EST217	Azoxystrobin	172	GOICDS_C DS1499_2	Imazapic
25	EST217	Dimoxystrobin	172	GOICDS_C DS1499_2	Imazapyr
25	EST217	Kresoxim-methyl	172	GOICDS_C DS1499_2	Imazaquin
25	EST217	Orysastrobin	172	GOICDS_C DS1499_2	Imazethapyr
25	EST217	Pyraclostrobin	172	GOICDS_C DS1499_2	2,4-D
25	EST217	Trifloxystrobin	172	GOICDS_C DS1499_2	Chloridazon
25	EST217	Bixafen	172	GOICDS_C DS1499_2	Picloram
25	EST217	Boscalid	172	GOICDS_C DS1499_2	Picolinafen
25	EST217	Isopyrazam	172	GOICDS_C DS1499_2	Cyclosulfamuron
25	EST217	Metalaxyl	172	GOICDS_C DS1499_2	Triflusulfuron
25	EST217	Penthiopyrad	172	GOICDS_C DS1499_2	Atrazine
25	EST217	3-Difluoromethyl-1-methyl-1H-pyrazole-4-carboxylic acid(2',4',5'-trifluoro-biphenyl-2-yl)-amide	172	GOICDS_C DS1499_2	Pyroxasulfone
25	EST217	Dimethomorph	172	GOICDS_C DS1499_2	Bentazone
25	EST217	Difenoconazole	172	GOICDS_C DS1499_2	Cinidon-ethyl
25	EST217	Epoxiconazole	172	GOICDS_C DS1499_2	Cinmethylin
25	EST217	Fluquinconazole	172	GOICDS_C DS1499_2	Dicamba
25	EST217	Metconazol	172	GOICDS_C DS1499_2	Diflufenzopyr
25	EST217	Propiconazole	172	GOICDS_C DS1499_2	Quinclorac
25	EST217	Prothioconazole	172	GOICDS_C DS1499_2	Quinmerac
25	EST217	Tebuconazole	172	GOICDS_C DS1499_2	Mesotrione

25	EST217	Triticonazole	172	GOICDS_C DS1499_2	Saflufenacil
25	EST217	Prochloraz	172	GOICDS_C DS1499_2	Topramezone;
25	EST217	Carbendazim	173	GOICDS_C DS1532	acephate
25	EST217	Cyprodinil	173	GOICDS_C DS1532	chlorpyrifos
25	EST217	Pyrimethanil	173	GOICDS_C DS1532	dimethoate
25	EST217	Fenpropimorph	173	GOICDS_C DS1532	methamidophos
25	EST217	Tridemorph	173	GOICDS_C DS1532	terbufos
25	EST217	Iprodione	173	GOICDS_C DS1532	aldicarb
25	EST217	5-ethyl-6-octyl-[1,2,4] triazolo[1,5-a]pyri- midine-7-ylamine	173	GOICDS_C DS1532	carbofuran
25	EST217	Mancozeb	173	GOICDS_C DS1532	bifenthrin
25	EST217	Maneb	173	GOICDS_C DS1532	cypermethrin
25	EST217	Metiram	173	GOICDS_C DS1532	alpha-cypermethrin
25	EST217	Dithianon	173	GOICDS_C DS1532	deltamethrin
25	EST217	Chlorothalonil	173	GOICDS_C DS1532	lambda-cyhalothrin
25	EST217	ThiophanateMethyl	173	GOICDS_C DS1532	tefluthrin
25	EST217	Cymoxanil	173	GOICDS_C DS1532	flufenoxuron
25	EST217	Metrafenone	173	GOICDS_C DS1532	teflubenzuron
25	EST217	Acetochlor	173	GOICDS_C DS1532	spirotetramat;
25	EST217	Dimethenamid	173	GOICDS_C DS1532	clothianidin
25	EST217	Metolachlor	173	GOICDS_C DS1532	imidacloprid
25	EST217	Metazachlor	173	GOICDS_C DS1532	thiamethoxam
25	EST217	Glyphosate	173	GOICDS_C DS1532	endosulfan

25	EST217	Glufosinate	173	GOICDS_C DS1532	fipronil
25	EST217	Sulfosate	173	GOICDS_C DS1532	abamectin
25	EST217	Fenoxaprop	173	GOICDS_C DS1532	spinosad
25	EST217	Paraquat	173	GOICDS_C DS1532	spinetoram
25	EST217	Cycloxydim	173	GOICDS_C DS1532	hydramethylnon;
25	EST217	Profoxydim	173	GOICDS_C DS1532	chlorfenapyr;
25	EST217	Sethoxydim	173	GOICDS_C DS1532	indoxacarb
25	EST217	Tepraloxydim	173	GOICDS_C DS1532	metaflumizone
25	EST217	Pendimethalin	173	GOICDS_C DS1532	flubendiamide
25	EST217	Acifluorfen	173	GOICDS_C DS1532	chlorantraniliprole
25	EST217	Imazamethabenz	173	GOICDS_C DS1532	cyazypyr(HGW86)
25	EST217	Imazamox	173	GOICDS_C DS1532	Azoxystrobin
25	EST217	Imazapic	173	GOICDS_C DS1532	Dimoxystrobin
25	EST217	Imazapyr	173	GOICDS_C DS1532	Kresoxim-methyl
25	EST217	Imazaquin	173	GOICDS_C DS1532	Orysastrobin
25	EST217	Imazethapyr	173	GOICDS_C DS1532	Pyraclostrobin
25	EST217	2,4-D	173	GOICDS_C DS1532	Trifloxystrobin
25	EST217	Chloridazon	173	GOICDS_C DS1532	Bixafen
25	EST217	Picloram	173	GOICDS_C DS1532	Boscalid
25	EST217	Picolinafen	173	GOICDS_C DS1532	Isopyrazam
25	EST217	Cyclosulfamuron	173	GOICDS_C DS1532	Metalaxyl
25	EST217	Triflusulfuron	173	GOICDS_C DS1532	Penthiopyrad
25	EST217	Atrazine	173	GOICDS_C	3-Difluoromethyl-1-

				DS1532	methyl-1H-pyrazole-4-carboxylic acid(2',4',5'-trifluoro-biphenyl-2-yl)-amide
25	EST217	Pyroxasulfone	173	GOICDS_C DS1532	Dimethomorph
25	EST217	Bentazone	173	GOICDS_C DS1532	Difenoconazole
25	EST217	Cinidon-ethyl	173	GOICDS_C DS1532	Epoconazole
25	EST217	Cinmethylin	173	GOICDS_C DS1532	Fluquinconazole
25	EST217	Dicamba	173	GOICDS_C DS1532	Metconazol
25	EST217	Diflufenzopyr	173	GOICDS_C DS1532	Propiconazole
25	EST217	Quinclorac	173	GOICDS_C DS1532	Prothioconazole
25	EST217	Quinmerac	173	GOICDS_C DS1532	Tebuconazole
25	EST217	Mesotrione	173	GOICDS_C DS1532	Triticonazole
25	EST217	Saflufenacil	173	GOICDS_C DS1532	Prochloraz
25	EST217	Topramezone;	173	GOICDS_C DS1532	Carbendazim
27	EST266	acephate	173	GOICDS_C DS1532	Cyprodinil
27	EST266	chlorpyrifos	173	GOICDS_C DS1532	Pyrimethanil
27	EST266	dimethoate	173	GOICDS_C DS1532	Fenpropimorph
27	EST266	methamidophos	173	GOICDS_C DS1532	Tridemorph
27	EST266	terbufos	173	GOICDS_C DS1532	Iprodione
27	EST266	aldicarb	173	GOICDS_C DS1532	5-ethyl-6-octyl-[1,2,4] triazolo[1,5-a]pyrimidine-7-ylamine
27	EST266	carbofuran	173	GOICDS_C DS1532	Mancozeb
27	EST266	bifenthrin	173	GOICDS_C DS1532	Maneb
27	EST266	cypermethrin	173	GOICDS_C DS1532	Metiram
27	EST266	alpha-cypermethrin	173	GOICDS_C	Dithianon

				DS1532	
27	EST266	deltamethrin	173	GOICDS_C DS1532	Chlorothalonil
27	EST266	lambda-cyhalothrin	173	GOICDS_C DS1532	ThiophanateMethyl
27	EST266	tefluthrin	173	GOICDS_C DS1532	Cymoxanil
27	EST266	flufenoxuron	173	GOICDS_C DS1532	Metrafenone
27	EST266	teflubenzuron	173	GOICDS_C DS1532	Acetochlor
27	EST266	spirotetramat;	173	GOICDS_C DS1532	Dimethenamid
27	EST266	clothianidin	173	GOICDS_C DS1532	Metolachlor
27	EST266	imidacloprid	173	GOICDS_C DS1532	Metazachlor
27	EST266	thiamethoxam	173	GOICDS_C DS1532	Glyphosate
27	EST266	endosulfan	173	GOICDS_C DS1532	Glufosinate
27	EST266	fipronil	173	GOICDS_C DS1532	Sulfosate
27	EST266	abamectin	173	GOICDS_C DS1532	Fenoxaprop
27	EST266	spinosad	173	GOICDS_C DS1532	Paraquat
27	EST266	spinetoram	173	GOICDS_C DS1532	Cycloxydim
27	EST266	hydramethylnon;	173	GOICDS_C DS1532	Profoxydim
27	EST266	chlorfenapyr;	173	GOICDS_C DS1532	Sethoxydim
27	EST266	indoxacarb	173	GOICDS_C DS1532	Tepraloxym
27	EST266	metaflumizone	173	GOICDS_C DS1532	Pendimethalin
27	EST266	flubendiamide	173	GOICDS_C DS1532	Acifluorfen
27	EST266	chlorantraniliprole	173	GOICDS_C DS1532	Imazamethabenz
27	EST266	cyazypyr(HGW86)	173	GOICDS_C DS1532	Imazamox
27	EST266	Azoxystrobin	173	GOICDS_C DS1532	Imazapic

27	EST266	Dimoxystrobin	173	GOICDS_C DS1532	Imazapyr
27	EST266	Kresoxim-methyl	173	GOICDS_C DS1532	Imazaquin
27	EST266	Orysastrobin	173	GOICDS_C DS1532	Imazethapyr
27	EST266	Pyraclostrobin	173	GOICDS_C DS1532	2,4-D
27	EST266	Trifloxystrobin	173	GOICDS_C DS1532	Chloridazon
27	EST266	Bixafen	173	GOICDS_C DS1532	Picloram
27	EST266	Boscalid	173	GOICDS_C DS1532	Picolinafen
27	EST266	Isopyrazam	173	GOICDS_C DS1532	Cyclosulfamuron
27	EST266	Metalaxyl	173	GOICDS_C DS1532	Triflusulfuron
27	EST266	Penthiopyrad	173	GOICDS_C DS1532	Atrazine
27	EST266	3-Difluoromethyl-1-methyl-1H-pyrazole-4-carboxylic acid(2',4',5'-trifluoro-biphenyl-2-yl)-amide	173	GOICDS_C DS1532	Pyroxasulfone
27	EST266	Dimethomorph	173	GOICDS_C DS1532	Bentazone
27	EST266	Difenoconazole	173	GOICDS_C DS1532	Cinidon-ethyl
27	EST266	Epoxiconazole	173	GOICDS_C DS1532	Cinmethylin
27	EST266	Fluquinconazole	173	GOICDS_C DS1532	Dicamba
27	EST266	Metconazol	173	GOICDS_C DS1532	Diflufenzopyr
27	EST266	Propiconazole	173	GOICDS_C DS1532	Quinclorac
27	EST266	Prothioconazole	173	GOICDS_C DS1532	Quinmerac
27	EST266	Tebuconazole	173	GOICDS_C DS1532	Mesotrione
27	EST266	Triticonazole	173	GOICDS_C DS1532	Saflufenacil
27	EST266	Prochloraz	173	GOICDS_C DS1532	Topramezone;
27	EST266	Carbendazim	174	_GOICDS_	acephate

				CDS3325	
27	EST266	Cyprodinil	174	_GOICDS_ CDS3325	chlorpyrifos
27	EST266	Pyrimethanil	174	_GOICDS_ CDS3325	dimethoate
27	EST266	Fenpropimorph	174	_GOICDS_ CDS3325	methamidophos
27	EST266	Tridemorph	174	_GOICDS_ CDS3325	terbufos
27	EST266	Iprodione	174	_GOICDS_ CDS3325	aldicarb
27	EST266	5-ethyl-6-octyl-[1,2,4] triazolo[1,5-a]pyri- midine-7-ylamine	174	_GOICDS_ CDS3325	carbofuran
27	EST266	Mancozeb	174	_GOICDS_ CDS3325	bifenthrin
27	EST266	Maneb	174	_GOICDS_ CDS3325	cypermethrin
27	EST266	Metiram	174	_GOICDS_ CDS3325	alpha-cypermethrin
27	EST266	Dithianon	174	_GOICDS_ CDS3325	deltamethrin
27	EST266	Chlorothalonil	174	_GOICDS_ CDS3325	lambda-cyhalothrin
27	EST266	ThiophanateMethyl	174	_GOICDS_ CDS3325	tefluthrin
27	EST266	Cymoxanil	174	_GOICDS_ CDS3325	flufenoxuron
27	EST266	Metrafenone	174	_GOICDS_ CDS3325	teflubenzuron
27	EST266	Acetochlor	174	_GOICDS_ CDS3325	spirotetramat;
27	EST266	Dimethenamid	174	_GOICDS_ CDS3325	clothianidin
27	EST266	Metolachlor	174	_GOICDS_ CDS3325	imidacloprid
27	EST266	Metazachlor	174	_GOICDS_ CDS3325	thiamethoxam
27	EST266	Glyphosate	174	_GOICDS_ CDS3325	endosulfan
27	EST266	Glufosinate	174	_GOICDS_ CDS3325	fipronil
27	EST266	Sulfosate	174	_GOICDS_ CDS3325	abamectin
27	EST266	Fenoxaprop	174	_GOICDS_ CDS3325	spinosad

				CDS3325	
27	EST266	Paraquat	174	_GOICDS_ CDS3325	spinetoram
27	EST266	Cycloxydim	174	_GOICDS_ CDS3325	hydramethylnon;
27	EST266	Profoxydim	174	_GOICDS_ CDS3325	chlorfenapyr;
27	EST266	Sethoxydim	174	_GOICDS_ CDS3325	indoxacarb
27	EST266	Tepraloxydim	174	_GOICDS_ CDS3325	metaflumizone
27	EST266	Pendimethalin	174	_GOICDS_ CDS3325	flubendiamide
27	EST266	Acifluorfen	174	_GOICDS_ CDS3325	chlorantraniliprole
27	EST266	Imazamethabenz	174	_GOICDS_ CDS3325	cyazypyr(HGW86)
27	EST266	Imazamox	174	_GOICDS_ CDS3325	Azoxystrobin
27	EST266	Imazapic	174	_GOICDS_ CDS3325	Dimoxystrobin
27	EST266	Imazapyr	174	_GOICDS_ CDS3325	Kresoxim-methyl
27	EST266	Imazaquin	174	_GOICDS_ CDS3325	Orysastrobin
27	EST266	Imazethapyr	174	_GOICDS_ CDS3325	Pyraclostrobin
27	EST266	2,4-D	174	_GOICDS_ CDS3325	Trifloxystrobin
27	EST266	Chloridazon	174	_GOICDS_ CDS3325	Bixafen
27	EST266	Picloram	174	_GOICDS_ CDS3325	Boscalid
27	EST266	Picolinafen	174	_GOICDS_ CDS3325	Isopyrazam
27	EST266	Cyclosulfamuron	174	_GOICDS_ CDS3325	Metalaxyl
27	EST266	Triflusulfuron	174	_GOICDS_ CDS3325	Penthiopyrad
27	EST266	Atrazine	174	_GOICDS_ CDS3325	3-Difluoromethyl-1-methyl-1H-pyrazole-4-carboxylic acid(2',4',5'-trifluorobiphenyl-2-yl)-amide
27	EST266	Pyroxasulfone	174	_GOICDS_ CDS3325	Dimethomorph

27	EST266	Bentazone	174	_GOICDS_ CDS3325	Difenoconazole
27	EST266	Cinidon-ethly	174	_GOICDS_ CDS3325	Epoxiconazole
27	EST266	Cinmethylin	174	_GOICDS_ CDS3325	Fluquinconazole
27	EST266	Dicamba	174	_GOICDS_ CDS3325	Metconazol
27	EST266	Diflufenzopyr	174	_GOICDS_ CDS3325	Propiconazole
27	EST266	Quinclorac	174	_GOICDS_ CDS3325	Prothioconazole
27	EST266	Quinmerac	174	_GOICDS_ CDS3325	Tebuconazole
27	EST266	Mesotrione	174	_GOICDS_ CDS3325	Triticonazole
27	EST266	Saflufenacil	174	_GOICDS_ CDS3325	Prochloraz
27	EST266	Topramezone;	174	_GOICDS_ CDS3325	Carbendazim
28	EST268	acephate	174	_GOICDS_ CDS3325	Cyprodinil
28	EST268	chlorpyrifos	174	_GOICDS_ CDS3325	Pyrimethanil
28	EST268	dimethoate	174	_GOICDS_ CDS3325	Fenpropimorph
28	EST268	methamidophos	174	_GOICDS_ CDS3325	Tridemorph
28	EST268	terbufos	174	_GOICDS_ CDS3325	Iprodione
28	EST268	aldicarb	174	_GOICDS_ CDS3325	5-ethyl-6-octyl-[1,2,4] triazolo[1,5-a]pyri- midine-7-ylamine
28	EST268	carbofuran	174	_GOICDS_ CDS3325	Mancozeb
28	EST268	bifenthrin	174	_GOICDS_ CDS3325	Maneb
28	EST268	cypermethrin	174	_GOICDS_ CDS3325	Metiram
28	EST268	alpha-cypermethrin	174	_GOICDS_ CDS3325	Dithianon
28	EST268	deltamethrin	174	_GOICDS_ CDS3325	Chlorothalonil
28	EST268	lambda-cyhalothrin	174	_GOICDS_ CDS3325	ThiophanateMethyl

28	EST268	tefluthrin	174	_GOICDS_ CDS3325	Cymoxanil
28	EST268	flufenoxuron	174	_GOICDS_ CDS3325	Metrafenone
28	EST268	teflubenzuron	174	_GOICDS_ CDS3325	Acetochlor
28	EST268	spirotetramat;	174	_GOICDS_ CDS3325	Dimethenamid
28	EST268	clothianidin	174	_GOICDS_ CDS3325	Metolachlor
28	EST268	imidacloprid	174	_GOICDS_ CDS3325	Metazachlor
28	EST268	thiamethoxam	174	_GOICDS_ CDS3325	Glyphosate
28	EST268	endosulfan	174	_GOICDS_ CDS3325	Glufosinate
28	EST268	fipronil	174	_GOICDS_ CDS3325	Sulfosate
28	EST268	abamectin	174	_GOICDS_ CDS3325	Fenoxaprop
28	EST268	spinosad	174	_GOICDS_ CDS3325	Paraquat
28	EST268	spinetoram	174	_GOICDS_ CDS3325	Cycloxydim
28	EST268	hydramethylnon;	174	_GOICDS_ CDS3325	Profoxydim
28	EST268	chlorfenapyr;	174	_GOICDS_ CDS3325	Sethoxydim
28	EST268	indoxacarb	174	_GOICDS_ CDS3325	Tepraloxym
28	EST268	metaflumizone	174	_GOICDS_ CDS3325	Pendimethalin
28	EST268	flubendiamide	174	_GOICDS_ CDS3325	Acifluorfen
28	EST268	chlorantraniliprole	174	_GOICDS_ CDS3325	Imazamethabenz
28	EST268	cyazypyr(HGW86)	174	_GOICDS_ CDS3325	Imazamox
28	EST268	Azoxystrobin	174	_GOICDS_ CDS3325	Imazapic
28	EST268	Dimoxystrobin	174	_GOICDS_ CDS3325	Imazapyr
28	EST268	Kresoxim-methyl	174	_GOICDS_ CDS3325	Imazaquin
28	EST268	Orysastrobin	174	_GOICDS_ CDS3325	Imazethapyr

				CDS3325	
28	EST268	Pyraclostrobin	174	_GOICDS_ CDS3325	2,4-D
28	EST268	Trifloxystrobin	174	_GOICDS_ CDS3325	Chloridazon
28	EST268	Bixafen	174	_GOICDS_ CDS3325	Picloram
28	EST268	Boscalid	174	_GOICDS_ CDS3325	Picolinafen
28	EST268	Isopyrazam	174	_GOICDS_ CDS3325	Cyclosulfamuron
28	EST268	Metalaxyl	174	_GOICDS_ CDS3325	Triflusulfuron
28	EST268	Penthiopyrad	174	_GOICDS_ CDS3325	Atrazine
28	EST268	3-Difluoromethyl-1-methyl-1H-pyrazole-4-carboxylic acid(2',4',5'-trifluoro-biphenyl-2-yl)-amide	174	_GOICDS_ CDS3325	Pyroxasulfone
28	EST268	Dimethomorph	174	_GOICDS_ CDS3325	Bentazone
28	EST268	Difenoconazole	174	_GOICDS_ CDS3325	Cinidon-ethly
28	EST268	Epoxiconazole	174	_GOICDS_ CDS3325	Cinmethylin
28	EST268	Fluquinconazole	174	_GOICDS_ CDS3325	Dicamba
28	EST268	Metconazol	174	_GOICDS_ CDS3325	Diflufenzopyr
28	EST268	Propiconazole	174	_GOICDS_ CDS3325	Quinclorac
28	EST268	Prothioconazole	174	_GOICDS_ CDS3325	Quinmerac
28	EST268	Tebuconazole	174	_GOICDS_ CDS3325	Mesotrione
28	EST268	Triticonazole	174	_GOICDS_ CDS3325	Saflufenacil
28	EST268	Prochloraz	174	_GOICDS_ CDS3325	Topramezone;
28	EST268	Carbendazim	175	GOICDS_C DS0218	acephate
28	EST268	Cyprodinil	175	GOICDS_C DS0218	chlorpyrifos
28	EST268	Pyrimethanil	175	GOICDS_C DS0218	dimethoate

28	EST268	Fenpropimorph	175	GOICDS_C DS0218	methamidophos
28	EST268	Tridemorph	175	GOICDS_C DS0218	terbufos
28	EST268	Iprodione	175	GOICDS_C DS0218	aldicarb
28	EST268	5-ethyl-6-octyl-[1,2,4] triazolo[1,5-a]pyri- midine-7-ylamine	175	GOICDS_C DS0218	carbofuran
28	EST268	Mancozeb	175	GOICDS_C DS0218	bifenthrin
28	EST268	Maneb	175	GOICDS_C DS0218	cypermethrin
28	EST268	Metiram	175	GOICDS_C DS0218	alpha-cypermethrin
28	EST268	Dithianon	175	GOICDS_C DS0218	deltamethrin
28	EST268	Chlorothalonil	175	GOICDS_C DS0218	lambda-cyhalothrin
28	EST268	ThiophanateMethyl	175	GOICDS_C DS0218	tefluthrin
28	EST268	Cymoxanil	175	GOICDS_C DS0218	flufenoxuron
28	EST268	Metrafenone	175	GOICDS_C DS0218	teflubenzuron
28	EST268	Acetochlor	175	GOICDS_C DS0218	spirotetramat;
28	EST268	Dimethenamid	175	GOICDS_C DS0218	clothianidin
28	EST268	Metolachlor	175	GOICDS_C DS0218	imidacloprid
28	EST268	Metazachlor	175	GOICDS_C DS0218	thiamethoxam
28	EST268	Glyphosate	175	GOICDS_C DS0218	endosulfan
28	EST268	Glufosinate	175	GOICDS_C DS0218	fipronil
28	EST268	Sulfosate	175	GOICDS_C DS0218	abamectin
28	EST268	Fenoxaprop	175	GOICDS_C DS0218	spinosad
28	EST268	Paraquat	175	GOICDS_C DS0218	spinetoram
28	EST268	Cycloxydim	175	GOICDS_C DS0218	hydramethylnon;

28	EST268	Profoxydim	175	GOICDS_C DS0218	chlorfenapyr;
28	EST268	Sethoxydim	175	GOICDS_C DS0218	indoxacarb
28	EST268	Tepraloxydim	175	GOICDS_C DS0218	metaflumizone
28	EST268	Pendimethalin	175	GOICDS_C DS0218	flubendiamide
28	EST268	Acifluorfen	175	GOICDS_C DS0218	chlorantraniliprole
28	EST268	Imazamethabenz	175	GOICDS_C DS0218	cyazypyr(HGW86)
28	EST268	Imazamox	175	GOICDS_C DS0218	Azoxystrobin
28	EST268	Imazapic	175	GOICDS_C DS0218	Dimoxystrobin
28	EST268	Imazapyr	175	GOICDS_C DS0218	Kresoxim-methyl
28	EST268	Imazaquin	175	GOICDS_C DS0218	Orysastrobin
28	EST268	Imazethapyr	175	GOICDS_C DS0218	Pyraclostrobin
28	EST268	2,4-D	175	GOICDS_C DS0218	Trifloxystrobin
28	EST268	Chloridazon	175	GOICDS_C DS0218	Bixafen
28	EST268	Picloram	175	GOICDS_C DS0218	Boscalid
28	EST268	Picolinafen	175	GOICDS_C DS0218	Isopyrazam
28	EST268	Cyclosulfamuron	175	GOICDS_C DS0218	Metalaxyl
28	EST268	Triflusulfuron	175	GOICDS_C DS0218	Penthiopyrad
28	EST268	Atrazine	175	GOICDS_C DS0218	3-Difluoromethyl-1- methyl-1H-pyrazole- 4-carboxylic acid(2',4',5'-trifluoro- biphenyl-2-yl)-amide
28	EST268	Pyroxasulfone	175	GOICDS_C DS0218	Dimethomorph
28	EST268	Bentazone	175	GOICDS_C DS0218	Difenoconazole
28	EST268	Cinidon-ethyl	175	GOICDS_C DS0218	Epoxiconazole
28	EST268	Cinmethylin	175	GOICDS_C	Fluquinconazole

				DS0218	
28	EST268	Dicamba	175	GOICDS_C DS0218	Metconazol
28	EST268	Diflufenzopyr	175	GOICDS_C DS0218	Propiconazole
28	EST268	Quinclorac	175	GOICDS_C DS0218	Prothioconazole
28	EST268	Quinmerac	175	GOICDS_C DS0218	Tebuconazole
28	EST268	Mesotrione	175	GOICDS_C DS0218	Triticonazole
28	EST268	Saflufenacil	175	GOICDS_C DS0218	Prochloraz
28	EST268	Topramezone;	175	GOICDS_C DS0218	Carbendazim
30	EST293	acephate	175	GOICDS_C DS0218	Cyprodinil
30	EST293	chlorpyrifos	175	GOICDS_C DS0218	Pyrimethanil
30	EST293	dimethoate	175	GOICDS_C DS0218	Fenpropimorph
30	EST293	methamidophos	175	GOICDS_C DS0218	Tridemorph
30	EST293	terbufos	175	GOICDS_C DS0218	Iprodione
30	EST293	aldicarb	175	GOICDS_C DS0218	5-ethyl-6-octyl-[1,2,4] triazolo[1,5-a]pyri- midine-7-ylamine
30	EST293	carbofuran	175	GOICDS_C DS0218	Mancozeb
30	EST293	bifenthrin	175	GOICDS_C DS0218	Maneb
30	EST293	cypermethrin	175	GOICDS_C DS0218	Metiram
30	EST293	alpha-cypermethrin	175	GOICDS_C DS0218	Dithianon
30	EST293	deltamethrin	175	GOICDS_C DS0218	Chlorothalonil
30	EST293	lambda-cyhalothrin	175	GOICDS_C DS0218	ThiophanateMethyl
30	EST293	tefluthrin	175	GOICDS_C DS0218	Cymoxanil
30	EST293	flufenoxuron	175	GOICDS_C DS0218	Metrafenone
30	EST293	teflubenzuron	175	GOICDS_C	Acetochlor

				DS0218	
30	EST293	spirotetramat;	175	GOICDS_C DS0218	Dimethenamid
30	EST293	clothianidin	175	GOICDS_C DS0218	Metolachlor
30	EST293	imidacloprid	175	GOICDS_C DS0218	Metazachlor
30	EST293	thiamethoxam	175	GOICDS_C DS0218	Glyphosate
30	EST293	endosulfan	175	GOICDS_C DS0218	Glufosinate
30	EST293	fipronil	175	GOICDS_C DS0218	Sulfosate
30	EST293	abamectin	175	GOICDS_C DS0218	Fenoxaprop
30	EST293	spinosad	175	GOICDS_C DS0218	Paraquat
30	EST293	spinetoram	175	GOICDS_C DS0218	Cycloxydim
30	EST293	hydramethylnon;	175	GOICDS_C DS0218	Profoxydim
30	EST293	chlorfenapyr;	175	GOICDS_C DS0218	Sethoxydim
30	EST293	indoxacarb	175	GOICDS_C DS0218	Tepraloxym
30	EST293	metaflumizone	175	GOICDS_C DS0218	Pendimethalin
30	EST293	flubendiamide	175	GOICDS_C DS0218	Acifluorfen
30	EST293	chlorantraniliprole	175	GOICDS_C DS0218	Imazamethabenz
30	EST293	cyazypyr(HGW86)	175	GOICDS_C DS0218	Imazamox
30	EST293	Azoxystrobin	175	GOICDS_C DS0218	Imazapic
30	EST293	Dimoxystrobin	175	GOICDS_C DS0218	Imazapyr
30	EST293	Kresoxim-methyl	175	GOICDS_C DS0218	Imazaquin
30	EST293	Orysastrobin	175	GOICDS_C DS0218	Imazethapyr
30	EST293	Pyraclostrobin	175	GOICDS_C DS0218	2,4-D
30	EST293	Trifloxystrobin	175	GOICDS_C DS0218	Chloridazon

30	EST293	Bixafen	175	GOICDS_C DS0218	Picloram
30	EST293	Boscalid	175	GOICDS_C DS0218	Picolinafen
30	EST293	Isopyrazam	175	GOICDS_C DS0218	Cyclosulfamuron
30	EST293	Metalaxyl	175	GOICDS_C DS0218	Triflusulfuron
30	EST293	Penthiopyrad	175	GOICDS_C DS0218	Atrazine
30	EST293	3-Difluoromethyl-1-methyl-1H-pyrazole-4-carboxylic acid(2',4',5'-trifluoro-biphenyl-2-yl)-amide	175	GOICDS_C DS0218	Pyroxasulfone
30	EST293	Dimethomorph	175	GOICDS_C DS0218	Bentazone
30	EST293	Difenoconazole	175	GOICDS_C DS0218	Cinidon-ethly
30	EST293	Epoxiconazole	175	GOICDS_C DS0218	Cinmethylin
30	EST293	Fluquinconazole	175	GOICDS_C DS0218	Dicamba
30	EST293	Metconazol	175	GOICDS_C DS0218	Diflufenzopyr
30	EST293	Propiconazole	175	GOICDS_C DS0218	Quinclorac
30	EST293	Prothioconazole	175	GOICDS_C DS0218	Quinmerac
30	EST293	Tebuconazole	175	GOICDS_C DS0218	Mesotrione
30	EST293	Triticonazole	175	GOICDS_C DS0218	Saflufenacil
30	EST293	Prochloraz	175	GOICDS_C DS0218	Topramezone;
30	EST293	Carbendazim	176	GOICDS_C DS1536	acephate
30	EST293	Cyprodinil	176	GOICDS_C DS1536	chlorpyrifos
30	EST293	Pyrimethanil	176	GOICDS_C DS1536	dimethoate
30	EST293	Fenpropimorph	176	GOICDS_C DS1536	methamidophos
30	EST293	Tridemorph	176	GOICDS_C DS1536	terbufos
30	EST293	Iprodione	176	GOICDS_C	aldicarb

				DS1536	
30	EST293	5-ethyl-6-octyl-[1,2,4] triazolo[1,5-a]pyrimidine-7-ylamine	176	GOICDS_C DS1536	carbofuran
30	EST293	Mancozeb	176	GOICDS_C DS1536	bifenthrin
30	EST293	Maneb	176	GOICDS_C DS1536	cypermethrin
30	EST293	Metiram	176	GOICDS_C DS1536	alpha-cypermethrin
30	EST293	Dithianon	176	GOICDS_C DS1536	deltamethrin
30	EST293	Chlorothalonil	176	GOICDS_C DS1536	lambda-cyhalothrin
30	EST293	ThiophanateMethyl	176	GOICDS_C DS1536	tefluthrin
30	EST293	Cymoxanil	176	GOICDS_C DS1536	flufenoxuron
30	EST293	Metrafenone	176	GOICDS_C DS1536	teflubenzuron
30	EST293	Acetochlor	176	GOICDS_C DS1536	spirotetramat;
30	EST293	Dimethenamid	176	GOICDS_C DS1536	clothianidin
30	EST293	Metolachlor	176	GOICDS_C DS1536	imidacloprid
30	EST293	Metazachlor	176	GOICDS_C DS1536	thiamethoxam
30	EST293	Glyphosate	176	GOICDS_C DS1536	endosulfan
30	EST293	Glufosinate	176	GOICDS_C DS1536	fipronil
30	EST293	Sulfosate	176	GOICDS_C DS1536	abamectin
30	EST293	Fenoxaprop	176	GOICDS_C DS1536	spinosad
30	EST293	Paraquat	176	GOICDS_C DS1536	spinetoram
30	EST293	Cycloxydim	176	GOICDS_C DS1536	hydramethylnon;
30	EST293	Profoxydim	176	GOICDS_C DS1536	chlorfenapyr;
30	EST293	Sethoxydim	176	GOICDS_C DS1536	indoxacarb
30	EST293	Tepraloxydim	176	GOICDS_C	metaflumizone

				DS1536	
30	EST293	Pendimethalin	176	GOICDS_C DS1536	flubendiamide
30	EST293	Acifluorfen	176	GOICDS_C DS1536	chlorantraniliprole
30	EST293	Imazamethabenz	176	GOICDS_C DS1536	cyazypyr(HGW86)
30	EST293	Imazamox	176	GOICDS_C DS1536	Azoxystrobin
30	EST293	Imazapic	176	GOICDS_C DS1536	Dimoxystrobin
30	EST293	Imazapyr	176	GOICDS_C DS1536	Kresoxim-methyl
30	EST293	Imazaquin	176	GOICDS_C DS1536	Orysastrobin
30	EST293	Imazethapyr	176	GOICDS_C DS1536	Pyraclostrobin
30	EST293	2,4-D	176	GOICDS_C DS1536	Trifloxystrobin
30	EST293	Chloridazon	176	GOICDS_C DS1536	Bixafen
30	EST293	Picloram	176	GOICDS_C DS1536	Boscalid
30	EST293	Picolinafen	176	GOICDS_C DS1536	Isopyrazam
30	EST293	Cyclosulfamuron	176	GOICDS_C DS1536	Metalaxyl
30	EST293	Triflusulfuron	176	GOICDS_C DS1536	Penthiopyrad
30	EST293	Atrazine	176	GOICDS_C DS1536	3-Difluoromethyl-1-methyl-1H-pyrazole-4-carboxylic acid(2',4',5'-trifluorobiphenyl-2-yl)-amide
30	EST293	Pyroxasulfone	176	GOICDS_C DS1536	Dimethomorph
30	EST293	Bentazone	176	GOICDS_C DS1536	Difenoconazole
30	EST293	Cinidon-ethyl	176	GOICDS_C DS1536	Epoxiconazole
30	EST293	Cinmethylin	176	GOICDS_C DS1536	Fluquinconazole
30	EST293	Dicamba	176	GOICDS_C DS1536	Metconazol
30	EST293	Diflufenzopyr	176	GOICDS_C DS1536	Propiconazole

30	EST293	Quinclorac	176	GOICDS_C DS1536	Prothioconazole
30	EST293	Quinmerac	176	GOICDS_C DS1536	Tebuconazole
30	EST293	Mesotrione	176	GOICDS_C DS1536	Triticonazole
30	EST293	Saflufenacil	176	GOICDS_C DS1536	Prochloraz
30	EST293	Topramezone;	176	GOICDS_C DS1536	Carbendazim
31	EST295	acephate	176	GOICDS_C DS1536	Cyprodinil
31	EST295	chlorpyrifos	176	GOICDS_C DS1536	Pyrimethanil
31	EST295	dimethoate	176	GOICDS_C DS1536	Fenpropimorph
31	EST295	methamidophos	176	GOICDS_C DS1536	Tridemorph
31	EST295	terbufos	176	GOICDS_C DS1536	Iprodione
31	EST295	aldicarb	176	GOICDS_C DS1536	5-ethyl-6-octyl-[1,2,4] triazolo[1,5-a]pyri- midine-7-ylamine
31	EST295	carbofuran	176	GOICDS_C DS1536	Mancozeb
31	EST295	bifenthrin	176	GOICDS_C DS1536	Maneb
31	EST295	cypermethrin	176	GOICDS_C DS1536	Metiram
31	EST295	alpha-cypermethrin	176	GOICDS_C DS1536	Dithianon
31	EST295	deltamethrin	176	GOICDS_C DS1536	Chlorothalonil
31	EST295	lambda-cyhalothrin	176	GOICDS_C DS1536	ThiophanateMethyl
31	EST295	tefluthrin	176	GOICDS_C DS1536	Cymoxanil
31	EST295	flufenoxuron	176	GOICDS_C DS1536	Metrafenone
31	EST295	teflubenzuron	176	GOICDS_C DS1536	Acetochlor
31	EST295	spirotetramat;	176	GOICDS_C DS1536	Dimethenamid
31	EST295	clothianidin	176	GOICDS_C DS1536	Metolachlor

31	EST295	imidacloprid	176	GOICDS_C DS1536	Metazachlor
31	EST295	thiamethoxam	176	GOICDS_C DS1536	Glyphosate
31	EST295	endosulfan	176	GOICDS_C DS1536	Glufosinate
31	EST295	fipronil	176	GOICDS_C DS1536	Sulfosate
31	EST295	abamectin	176	GOICDS_C DS1536	Fenoxaprop
31	EST295	spinosad	176	GOICDS_C DS1536	Paraquat
31	EST295	spinetoram	176	GOICDS_C DS1536	Cycloxydim
31	EST295	hydramethylnon;	176	GOICDS_C DS1536	Profoxydim
31	EST295	chlorfenapyr;	176	GOICDS_C DS1536	Sethoxydim
31	EST295	indoxacarb	176	GOICDS_C DS1536	Tepraloxydim
31	EST295	metaflumizone	176	GOICDS_C DS1536	Pendimethalin
31	EST295	flubendiamide	176	GOICDS_C DS1536	Acifluorfen
31	EST295	chlorantraniliprole	176	GOICDS_C DS1536	Imazamethabenz
31	EST295	cyazypyr(HGW86)	176	GOICDS_C DS1536	Imazamox
31	EST295	Azoxystrobin	176	GOICDS_C DS1536	Imazapic
31	EST295	Dimoxystrobin	176	GOICDS_C DS1536	Imazapyr
31	EST295	Kresoxim-methyl	176	GOICDS_C DS1536	Imazaquin
31	EST295	Orysastrobin	176	GOICDS_C DS1536	Imazethapyr
31	EST295	Pyraclostrobin	176	GOICDS_C DS1536	2,4-D
31	EST295	Trifloxystrobin	176	GOICDS_C DS1536	Chloridazon
31	EST295	Bixafen	176	GOICDS_C DS1536	Picloram
31	EST295	Boscalid	176	GOICDS_C DS1536	Picolinafen
31	EST295	Isopyrazam	176	GOICDS_C	Cyclosulfamuron

				DS1536	
31	EST295	Metalaxyl	176	GOICDS_C DS1536	Triflusulfuron
31	EST295	Penthiopyrad	176	GOICDS_C DS1536	Atrazine
31	EST295	3-Difluoromethyl-1-methyl-1H-pyrazole-4-carboxylic acid(2',4',5'-trifluoro-biphenyl-2-yl)-amide	176	GOICDS_C DS1536	Pyroxasulfone
31	EST295	Dimethomorph	176	GOICDS_C DS1536	Bentazone
31	EST295	Difenoconazole	176	GOICDS_C DS1536	Cinidon-ethly
31	EST295	Epoxiconazole	176	GOICDS_C DS1536	Cinmethylin
31	EST295	Fluquinconazole	176	GOICDS_C DS1536	Dicamba
31	EST295	Metconazol	176	GOICDS_C DS1536	Diflufenzopyr
31	EST295	Propiconazole	176	GOICDS_C DS1536	Quinclorac
31	EST295	Prothioconazole	176	GOICDS_C DS1536	Quinmerac
31	EST295	Tebuconazole	176	GOICDS_C DS1536	Mesotrione
31	EST295	Triticonazole	176	GOICDS_C DS1536	Saflufenacil
31	EST295	Prochloraz	176	GOICDS_C DS1536	Topramezone;
31	EST295	Carbendazim	177		acephate
31	EST295	Cyprodinil	177		chlorpyrifos
31	EST295	Pyrimethanil	177		dimethoate
31	EST295	Fenpropimorph	177		methamidophos
31	EST295	Tridemorph	177		terbufos
31	EST295	Iprodione	177		aldicarb
31	EST295	5-ethyl-6-octyl-[1,2,4] triazolo[1,5-a]pyrimidine-7-ylamine	177		carbofuran
31	EST295	Mancozeb	177		bifenthrin
31	EST295	Maneb	177		cypermethrin
31	EST295	Metiram	177		alpha-cypermethrin
31	EST295	Dithianon	177		deltamethrin
31	EST295	Chlorothalonil	177		lambda-cyhalothrin

31	EST295	ThiophanateMethyl	177		tefluthrin
31	EST295	Cymoxanil	177		flufenoxuron
31	EST295	Metrafenone	177		teflubenzuron
31	EST295	Acetochlor	177		spirotetramat;
31	EST295	Dimethenamid	177		clothianidin
31	EST295	Metolachlor	177		imidacloprid
31	EST295	Metazachlor	177		thiamethoxam
31	EST295	Glyphosate	177		endosulfan
31	EST295	Glufosinate	177		fipronil
31	EST295	Sulfosate	177		abamectin
31	EST295	Fenoxaprop	177		spinosad
31	EST295	Paraquat	177		spinetoram
31	EST295	Cycloxydim	177		hydramethylnon;
31	EST295	Profoxydim	177		chlorfenapyr;
31	EST295	Sethoxydim	177		indoxacarb
31	EST295	Tepraloxydim	177		metaflumizone
31	EST295	Pendimethalin	177		flubendiamide
31	EST295	Acifluorfen	177		chlorantraniliprole
31	EST295	Imazamethabenz	177		cyazypyr(HGW86)
31	EST295	Imazamox	177		Azoxystrobin
31	EST295	Imazapic	177		Dimoxystrobin
31	EST295	Imazapyr	177		Kresoxim-methyl
31	EST295	Imazaquin	177		Orysastrobin
31	EST295	Imazethapyr	177		Pyraclostrobin
31	EST295	2,4-D	177		Trifloxystrobin
31	EST295	Chloridazon	177		Bixafen
31	EST295	Picloram	177		Boscalid
31	EST295	Picolinafen	177		Isopyrazam
31	EST295	Cyclosulfamuron	177		Metalaxyl
31	EST295	Triflusulfuron	177		Penthiopyrad
31	EST295	Atrazine	177		3-Difluoromethyl-1-methyl-1H-pyrazole-4-carboxylic acid(2',4',5'-trifluorobiphenyl-2-yl)-amide
31	EST295	Pyroxasulfone	177		Dimethomorph
31	EST295	Bentazone	177		Difenoconazole
31	EST295	Cinidon-ethly	177		Epoxiconazole
31	EST295	Cinmethylin	177		Fluquinconazole
31	EST295	Dicamba	177		Metconazol

31	EST295	Diflufenzopyr	177	Propiconazole
31	EST295	Quinclorac	177	Prothioconazole
31	EST295	Quinmerac	177	Tebuconazole
31	EST295	Mesotrione	177	Triticonazole
31	EST295	Saflufenacil	177	Prochloraz
31	EST295	Topramezone;	177	Carbendazim
33	EST335	acephate	177	Cyprodinil
33	EST335	chlorpyrifos	177	Pyrimethanil
33	EST335	dimethoate	177	Fenpropimorph
33	EST335	methamidophos	177	Tridemorph
33	EST335	terbufos	177	Iprodione
33	EST335	aldicarb	177	5-ethyl-6-octyl-[1,2,4] triazolo[1,5-a]pyrimidine-7-ylamine
33	EST335	carbofuran	177	Mancozeb
33	EST335	bifenthrin	177	Maneb
33	EST335	cypermethrin	177	Metiram
33	EST335	alpha-cypermethrin	177	Dithianon
33	EST335	deltamethrin	177	Chlorothalonil
33	EST335	lambda-cyhalothrin	177	ThiophanateMethyl
33	EST335	tefluthrin	177	Cymoxanil
33	EST335	flufenoxuron	177	Metrafenone
33	EST335	teflubenzuron	177	Acetochlor
33	EST335	spirotetramat;	177	Dimethenamid
33	EST335	clothianidin	177	Metolachlor
33	EST335	imidacloprid	177	Metazachlor
33	EST335	thiamethoxam	177	Glyphosate
33	EST335	endosulfan	177	Glufosinate
33	EST335	fipronil	177	Sulfosate
33	EST335	abamectin	177	Fenoxaprop
33	EST335	spinosad	177	Paraquat
33	EST335	spinetoram	177	Cycloxydim
33	EST335	hydramethylnon;	177	Profoxydim
33	EST335	chlorfenapyr;	177	Sethoxydim
33	EST335	indoxacarb	177	Tepaloxymid
33	EST335	metaflumizone	177	Pendimethalin
33	EST335	flubendiamide	177	Acifluorfen
33	EST335	chlorantraniliprole	177	Imazamethabenz
33	EST335	cyazypyr(HGW86)	177	Imazamox

33	EST335	Azoxystrobin	177		Imazapic
33	EST335	Dimoxystrobin	177		Imazapyr
33	EST335	Kresoxim-methyl	177		Imazaquin
33	EST335	Orysastrobin	177		Imazethapyr
33	EST335	Pyraclostrobin	177		2,4-D
33	EST335	Trifloxystrobin	177		Chloridazon
33	EST335	Bixafen	177		Picloram
33	EST335	Boscalid	177		Picolinafen
33	EST335	Isopyrazam	177		Cyclosulfamuron
33	EST335	Metalaxyl	177		Triflusulfuron
33	EST335	Penthiopyrad	177		Atrazine
33	EST335	3-Difluoromethyl-1-methyl-1H-pyrazole-4-carboxylic acid(2',4',5'-trifluoro-biphenyl-2-yl)-amide	177		Pyroxasulfone
33	EST335	Dimethomorph	177		Bentazone
33	EST335	Difenoconazole	177		Cinidon-ethyl
33	EST335	Epoxiconazole	177		Cinmethylin
33	EST335	Fluquinconazole	177		Dicamba
33	EST335	Metconazol	177		Diflufenzopyr
33	EST335	Propiconazole	177		Quinclorac
33	EST335	Prothioconazole	177		Quinmerac
33	EST335	Tebuconazole	177		Mesotrione
33	EST335	Triticonazole	177		Saflufenacil
33	EST335	Prochloraz	177		Topramezone;
33	EST335	Carbendazim	178	GOICDS_C DS3074	acephate
33	EST335	Cyprodinil	178	GOICDS_C DS3074	chlorpyrifos
33	EST335	Pyrimethanil	178	GOICDS_C DS3074	dimethoate
33	EST335	Fenpropimorph	178	GOICDS_C DS3074	methamidophos
33	EST335	Tridemorph	178	GOICDS_C DS3074	terbufos
33	EST335	Iprodione	178	GOICDS_C DS3074	aldicarb
33	EST335	5-ethyl-6-octyl-[1,2,4] triazolo[1,5-a]pyrimidine-7-ylamine	178	GOICDS_C DS3074	carbofuran
33	EST335	Mancozeb	178	GOICDS_C	bifenthrin

				DS3074	
33	EST335	Maneb	178	GOICDS_C DS3074	cypermethrin
33	EST335	Metiram	178	GOICDS_C DS3074	alpha-cypermethrin
33	EST335	Dithianon	178	GOICDS_C DS3074	deltamethrin
33	EST335	Chlorothalonil	178	GOICDS_C DS3074	lambda-cyhalothrin
33	EST335	ThiophanateMethyl	178	GOICDS_C DS3074	tefluthrin
33	EST335	Cymoxanil	178	GOICDS_C DS3074	flufenoxuron
33	EST335	Metrafenone	178	GOICDS_C DS3074	teflubenzuron
33	EST335	Acetochlor	178	GOICDS_C DS3074	spirotetramat;
33	EST335	Dimethenamid	178	GOICDS_C DS3074	clothianidin
33	EST335	Metolachlor	178	GOICDS_C DS3074	imidacloprid
33	EST335	Metazachlor	178	GOICDS_C DS3074	thiamethoxam
33	EST335	Glyphosate	178	GOICDS_C DS3074	endosulfan
33	EST335	Glufosinate	178	GOICDS_C DS3074	fipronil
33	EST335	Sulfosate	178	GOICDS_C DS3074	abamectin
33	EST335	Fenoxaprop	178	GOICDS_C DS3074	spinosad
33	EST335	Paraquat	178	GOICDS_C DS3074	spinetoram
33	EST335	Cycloxydim	178	GOICDS_C DS3074	hydramethylnon;
33	EST335	Profoxydim	178	GOICDS_C DS3074	chlorfenapyr;
33	EST335	Sethoxydim	178	GOICDS_C DS3074	indoxacarb
33	EST335	Tepraloxydim	178	GOICDS_C DS3074	metaflumizone
33	EST335	Pendimethalin	178	GOICDS_C DS3074	flubendiamide
33	EST335	Acifluorfen	178	GOICDS_C DS3074	chlorantraniliprole

33	EST335	Imazamethabenz	178	GOICDS_C DS3074	cyazypyr(HGW86)
33	EST335	Imazamox	178	GOICDS_C DS3074	Azoxystrobin
33	EST335	Imazapic	178	GOICDS_C DS3074	Dimoxystrobin
33	EST335	Imazapyr	178	GOICDS_C DS3074	Kresoxim-methyl
33	EST335	Imazaquin	178	GOICDS_C DS3074	Orysastrobin
33	EST335	Imazethapyr	178	GOICDS_C DS3074	Pyraclostrobin
33	EST335	2,4-D	178	GOICDS_C DS3074	Trifloxystrobin
33	EST335	Chloridazon	178	GOICDS_C DS3074	Bixafen
33	EST335	Picloram	178	GOICDS_C DS3074	Boscalid
33	EST335	Picolinafen	178	GOICDS_C DS3074	Isopyrazam
33	EST335	Cyclosulfamuron	178	GOICDS_C DS3074	Metalaxyl
33	EST335	Triflusulfuron	178	GOICDS_C DS3074	Penthiopyrad
33	EST335	Atrazine	178	GOICDS_C DS3074	3-Difluoromethyl-1-methyl-1H-pyrazole-4-carboxylic acid(2',4',5'-trifluorobiphenyl-2-yl)-amide
33	EST335	Pyroxasulfone	178	GOICDS_C DS3074	Dimethomorph
33	EST335	Bentazone	178	GOICDS_C DS3074	Difenoconazole
33	EST335	Cinidon-ethyl	178	GOICDS_C DS3074	Epoxiconazole
33	EST335	Cinmethylin	178	GOICDS_C DS3074	Fluquinconazole
33	EST335	Dicamba	178	GOICDS_C DS3074	Metconazol
33	EST335	Diflufenzopyr	178	GOICDS_C DS3074	Propiconazole
33	EST335	Quinclorac	178	GOICDS_C DS3074	Prothioconazole
33	EST335	Quinmerac	178	GOICDS_C DS3074	Tebuconazole
33	EST335	Mesotrione	178	GOICDS_C	Triticonazole

				DS3074	
33	EST335	Saflufenacil	178	GOICDS_C DS3074	Prochloraz
33	EST335	Topramezone;	178	GOICDS_C DS3074	Carbendazim
37	EST4	acephate	178	GOICDS_C DS3074	Cyprodinil
37	EST4	chlorpyrifos	178	GOICDS_C DS3074	Pyrimethanil
37	EST4	dimethoate	178	GOICDS_C DS3074	Fenpropimorph
37	EST4	methamidophos	178	GOICDS_C DS3074	Tridemorph
37	EST4	terbufos	178	GOICDS_C DS3074	Iprodione
37	EST4	aldicarb	178	GOICDS_C DS3074	5-ethyl-6-octyl-[1,2,4] triazolo[1,5-a]pyri- midine-7-ylamine
37	EST4	carbofuran	178	GOICDS_C DS3074	Mancozeb
37	EST4	bifenthrin	178	GOICDS_C DS3074	Maneb
37	EST4	cypermethrin	178	GOICDS_C DS3074	Metiram
37	EST4	alpha-cypermethrin	178	GOICDS_C DS3074	Dithianon
37	EST4	deltamethrin	178	GOICDS_C DS3074	Chlorothalonil
37	EST4	lambda-cyhalothrin	178	GOICDS_C DS3074	ThiophanateMethyl
37	EST4	tefluthrin	178	GOICDS_C DS3074	Cymoxanil
37	EST4	flufenoxuron	178	GOICDS_C DS3074	Metrafenone
37	EST4	teflubenzuron	178	GOICDS_C DS3074	Acetochlor
37	EST4	spirotetramat;	178	GOICDS_C DS3074	Dimethenamid
37	EST4	clothianidin	178	GOICDS_C DS3074	Metolachlor
37	EST4	imidacloprid	178	GOICDS_C DS3074	Metazachlor
37	EST4	thiamethoxam	178	GOICDS_C DS3074	Glyphosate
37	EST4	endosulfan	178	GOICDS_C	Glufosinate

				DS3074	
37	EST4	fipronil	178	GOICDS_C DS3074	Sulfosate
37	EST4	abamectin	178	GOICDS_C DS3074	Fenoxaprop
37	EST4	spinosad	178	GOICDS_C DS3074	Paraquat
37	EST4	spinetoram	178	GOICDS_C DS3074	Cycloxydim
37	EST4	hydramethylnon;	178	GOICDS_C DS3074	Profoxydim
37	EST4	chlorfenapyr;	178	GOICDS_C DS3074	Sethoxydim
37	EST4	indoxacarb	178	GOICDS_C DS3074	Tepraloxym
37	EST4	metaflumizone	178	GOICDS_C DS3074	Pendimethalin
37	EST4	flubendiamide	178	GOICDS_C DS3074	Acifluorfen
37	EST4	chlorantraniliprole	178	GOICDS_C DS3074	Imazamethabenz
37	EST4	cyazypyr(HGW86)	178	GOICDS_C DS3074	Imazamox
37	EST4	Azoxystrobin	178	GOICDS_C DS3074	Imazapic
37	EST4	Dimoxystrobin	178	GOICDS_C DS3074	Imazapyr
37	EST4	Kresoxim-methyl	178	GOICDS_C DS3074	Imazaquin
37	EST4	Orysastrobin	178	GOICDS_C DS3074	Imazethapyr
37	EST4	Pyraclostrobin	178	GOICDS_C DS3074	2,4-D
37	EST4	Trifloxystrobin	178	GOICDS_C DS3074	Chloridazon
37	EST4	Bixafen	178	GOICDS_C DS3074	Picloram
37	EST4	Boscalid	178	GOICDS_C DS3074	Picolinafen
37	EST4	Isopyrazam	178	GOICDS_C DS3074	Cyclosulfamuron
37	EST4	Metalaxyl	178	GOICDS_C DS3074	Triflusulfuron
37	EST4	Penthiopyrad	178	GOICDS_C DS3074	Atrazine

37	EST4	3-Difluoromethyl-1-methyl-1H-pyrazole-4-carboxylic acid(2',4',5'-trifluorobiphenyl-2-yl)-amide	178	GOICDS_C DS3074	Pyroxasulfone
37	EST4	Dimethomorph	178	GOICDS_C DS3074	Bentazone
37	EST4	Difenoconazole	178	GOICDS_C DS3074	Cinidon-ethyl
37	EST4	Epoxiconazole	178	GOICDS_C DS3074	Cinmethylin
37	EST4	Fluquinconazole	178	GOICDS_C DS3074	Dicamba
37	EST4	Metconazol	178	GOICDS_C DS3074	Diflufenzopyr
37	EST4	Propiconazole	178	GOICDS_C DS3074	Quinclorac
37	EST4	Prothioconazole	178	GOICDS_C DS3074	Quinmerac
37	EST4	Tebuconazole	178	GOICDS_C DS3074	Mesotrione
37	EST4	Triticonazole	178	GOICDS_C DS3074	Saflufenacil
37	EST4	Prochloraz	178	GOICDS_C DS3074	Topramezone;
37	EST4	Carbendazim	182		acephate
37	EST4	Cyprodinil	182		chlorpyrifos
37	EST4	Pyrimethanil	182		dimethoate
37	EST4	Fenpropimorph	182		methamidophos
37	EST4	Tridemorph	182		terbufos
37	EST4	Iprodione	182		aldicarb
37	EST4	5-ethyl-6-octyl-[1,2,4] triazolo[1,5-a]pyrimidine-7-ylamine	182		carbofuran
37	EST4	Mancozeb	182		bifenthrin
37	EST4	Maneb	182		cypermethrin
37	EST4	Metiram	182		alpha-cypermethrin
37	EST4	Dithianon	182		deltamethrin
37	EST4	Chlorothalonil	182		lambda-cyhalothrin
37	EST4	ThiophanateMethyl	182		tefluthrin
37	EST4	Cymoxanil	182		flufenoxuron
37	EST4	Metrafenone	182		teflubenzuron
37	EST4	Acetochlor	182		spirotetramat;

37	EST4	Dimethenamid	182		clothianidin
37	EST4	Metolachlor	182		imidacloprid
37	EST4	Metazachlor	182		thiamethoxam
37	EST4	Glyphosate	182		endosulfan
37	EST4	Glufosinate	182		fipronil
37	EST4	Sulfosate	182		abamectin
37	EST4	Fenoxaprop	182		spinosad
37	EST4	Paraquat	182		spinetoram
37	EST4	Cycloxydim	182		hydramethylnon;
37	EST4	Profoxydim	182		chlorfenapyr;
37	EST4	Sethoxydim	182		indoxacarb
37	EST4	Tepraloxym	182		metaflumizone
37	EST4	Pendimethalin	182		flubendiamide
37	EST4	Acifluorfen	182		chlorantraniliprole
37	EST4	Imazamethabenz	182		cyazypyr(HGW86)
37	EST4	Imazamox	182		Azoxystrobin
37	EST4	Imazapic	182		Dimoxystrobin
37	EST4	Imazapyr	182		Kresoxim-methyl
37	EST4	Imazaquin	182		Orysastrobin
37	EST4	Imazethapyr	182		Pyraclostrobin
37	EST4	2,4-D	182		Trifloxystrobin
37	EST4	Chloridazon	182		Bixafen
37	EST4	Picloram	182		Boscalid
37	EST4	Picolinafen	182		Isopyrazam
37	EST4	Cyclosulfamuron	182		Metalaxyl
37	EST4	Triflurosulfuron	182		Penthiopyrad
37	EST4	Atrazine	182		3-Difluoromethyl-1-methyl-1H-pyrazole-4-carboxylic acid(2',4',5'-trifluorobiphenyl-2-yl)-amide
37	EST4	Pyroxasulfone	182		Dimethomorph
37	EST4	Bentazone	182		Difenoconazole
37	EST4	Cinidon-ethyl	182		Epoxiconazole
37	EST4	Cinmethylin	182		Fluquinconazole
37	EST4	Dicamba	182		Metconazol
37	EST4	Diflufenzopyr	182		Propiconazole
37	EST4	Quinclorac	182		Prothioconazole
37	EST4	Quinmerac	182		Tebuconazole
37	EST4	Mesotrione	182		Triticonazole

37	EST4	Saflufenacil	182		Prochloraz
37	EST4	Topramezone;	182		Carbendazim
39	EST443	acephate	182		Cyprodinil
39	EST443	chlorpyrifos	182		Pyrimethanil
39	EST443	dimethoate	182		Fenpropimorph
39	EST443	methamidophos	182		Tridemorph
39	EST443	terbufos	182		Iprodione
39	EST443	aldicarb	182		5-ethyl-6-octyl-[1,2,4] triazolo[1,5-a]pyri- midine-7-ylamine
39	EST443	carbofuran	182		Mancozeb
39	EST443	bifenthrin	182		Maneb
39	EST443	cypermethrin	182		Metiram
39	EST443	alpha-cypermethrin	182		Dithianon
39	EST443	deltamethrin	182		Chlorothalonil
39	EST443	lambda-cyhalothrin	182		ThiophanateMethyl
39	EST443	tefluthrin	182		Cymoxanil
39	EST443	flufenoxuron	182		Metrafenone
39	EST443	teflubenzuron	182		Acetochlor
39	EST443	spirotetramat;	182		Dimethenamid
39	EST443	clothianidin	182		Metolachlor
39	EST443	imidacloprid	182		Metazachlor
39	EST443	thiamethoxam	182		Glyphosate
39	EST443	endosulfan	182		Glufosinate
39	EST443	fipronil	182		Sulfosate
39	EST443	abamectin	182		Fenoxaprop
39	EST443	spinosad	182		Paraquat
39	EST443	spinetoram	182		Cycloxydim
39	EST443	hydramethylnon;	182		Profoxydim
39	EST443	chlorfenapyr;	182		Sethoxydim
39	EST443	indoxacarb	182		Tepraloxydim
39	EST443	metaflumizone	182		Pendimethalin
39	EST443	flubendiamide	182		Acifluorfen
39	EST443	chlorantraniliprole	182		Imazamethabenz
39	EST443	cyazypyr(HGW86)	182		Imazamox
39	EST443	Azoxystrobin	182		Imazapic
39	EST443	Dimoxystrobin	182		Imazapyr
39	EST443	Kresoxim-methyl	182		Imazaquin
39	EST443	Orysastrobin	182		Imazethapyr

39	EST443	Pyraclostrobin	182		2,4-D
39	EST443	Trifloxystrobin	182		Chloridazon
39	EST443	Bixafen	182		Picloram
39	EST443	Boscalid	182		Picolinafen
39	EST443	Isopyrazam	182		Cyclosulfamuron
39	EST443	Metalaxyl	182		Triflusulfuron
39	EST443	Penthiopyrad	182		Atrazine
39	EST443	3-Difluoromethyl-1-methyl-1H-pyrazole-4-carboxylic acid(2',4',5'-trifluoro-biphenyl-2-yl)-amide	182		Pyroxasulfone
39	EST443	Dimethomorph	182		Bentazone
39	EST443	Difenoconazole	182		Cinidon-ethly
39	EST443	Epoconazole	182		Cinmethylin
39	EST443	Fluquinconazole	182		Dicamba
39	EST443	Metconazol	182		Diflufenzopyr
39	EST443	Propiconazole	182		Quinclorac
39	EST443	Prothioconazole	182		Quinmerac
39	EST443	Tebuconazole	182		Mesotrione
39	EST443	Triticonazole	182		Saflufenacil
39	EST443	Prochloraz	182		Topramezone;
39	EST443	Carbendazim	186		acephate
39	EST443	Cyprodinil	186		chlorpyrifos
39	EST443	Pyrimethanil	186		dimethoate
39	EST443	Fenpropimorph	186		methamidophos
39	EST443	Tridemorph	186		terbufos
39	EST443	Iprodione	186		aldicarb
39	EST443	5-ethyl-6-octyl-[1,2,4] triazolo[1,5-a]pyrimidine-7-ylamine	186		carbofuran
39	EST443	Mancozeb	186		bifenthrin
39	EST443	Maneb	186		cypermethrin
39	EST443	Metiram	186		alpha-cypermethrin
39	EST443	Dithianon	186		deltamethrin
39	EST443	Chlorothalonil	186		lambda-cyhalothrin
39	EST443	ThiophanateMethyl	186		tefluthrin
39	EST443	Cymoxanil	186		flufenoxuron
39	EST443	Metrafenone	186		teflubenzuron
39	EST443	Acetochlor	186		spirotetramat;

39	EST443	Dimethenamid	186		clothianidin
39	EST443	Metolachlor	186		imidacloprid
39	EST443	Metazachlor	186		thiamethoxam
39	EST443	Glyphosate	186		endosulfan
39	EST443	Glufosinate	186		fipronil
39	EST443	Sulfosate	186		abamectin
39	EST443	Fenoxaprop	186		spinosad
39	EST443	Paraquat	186		spinetoram
39	EST443	Cycloxydim	186		hydramethylnon;
39	EST443	Profoxydim	186		chlorfenapyr;
39	EST443	Sethoxydim	186		indoxacarb
39	EST443	Tepraloxydim	186		metaflumizone
39	EST443	Pendimethalin	186		flubendiamide
39	EST443	Acifluorfen	186		chlorantraniliprole
39	EST443	Imazamethabenz	186		cyazypyr(HGW86)
39	EST443	Imazamox	186		Azoxystrobin
39	EST443	Imazapic	186		Dimoxystrobin
39	EST443	Imazapyr	186		Kresoxim-methyl
39	EST443	Imazaquin	186		Orysastrobin
39	EST443	Imazethapyr	186		Pyraclostrobin
39	EST443	2,4-D	186		Trifloxystrobin
39	EST443	Chloridazon	186		Bixafen
39	EST443	Picloram	186		Boscalid
39	EST443	Picolinafen	186		Isopyrazam
39	EST443	Cyclosulfamuron	186		Metalaxyl
39	EST443	Triflusulfuron	186		Penthiopyrad
39	EST443	Atrazine	186		3-Difluoromethyl-1-methyl-1H-pyrazole-4-carboxylic acid(2',4',5'-trifluorobiphenyl-2-yl)-amide
39	EST443	Pyroxasulfone	186		Dimethomorph
39	EST443	Bentazone	186		Difenoconazole
39	EST443	Cinidon-ethyl	186		Epoxiconazole
39	EST443	Cinmethylin	186		Fluquinconazole
39	EST443	Dicamba	186		Metconazol
39	EST443	Diflufenzopyr	186		Propiconazole
39	EST443	Quinclorac	186		Prothioconazole
39	EST443	Quinmerac	186		Tebuconazole

39	EST443	Mesotrione	186		Triticonazole
39	EST443	Saflufenacil	186		Prochloraz
39	EST443	Topramezone;	186		Carbendazim
40	EST46	acephate	186		Cyprodinil
40	EST46	chlorpyrifos	186		Pyrimethanil
40	EST46	dimethoate	186		Fenpropimorph
40	EST46	methamidophos	186		Tridemorph
40	EST46	terbufos	186		Iprodione
40	EST46	aldicarb	186		5-ethyl-6-octyl-[1,2,4]triazolo[1,5-a]pyrimidine-7-ylamine
40	EST46	carbofuran	186		Mancozeb
40	EST46	bifenthrin	186		Maneb
40	EST46	cypermethrin	186		Metiram
40	EST46	alpha-cypermethrin	186		Dithianon
40	EST46	deltamethrin	186		Chlorothalonil
40	EST46	lambda-cyhalothrin	186		ThiophanateMethyl
40	EST46	tefluthrin	186		Cymoxanil
40	EST46	flufenoxuron	186		Metrafenone
40	EST46	teflubenzuron	186		Acetochlor
40	EST46	spirotetramat;	186		Dimethenamid
40	EST46	clothianidin	186		Metolachlor
40	EST46	imidacloprid	186		Metazachlor
40	EST46	thiamethoxam	186		Glyphosate
40	EST46	endosulfan	186		Glufosinate
40	EST46	fipronil	186		Sulfosate
40	EST46	abamectin	186		Fenoxaprop
40	EST46	spinosad	186		Paraquat
40	EST46	spinetoram	186		Cycloxydim
40	EST46	hydramethylnon;	186		Profoxydim
40	EST46	chlorfenapyr;	186		Sethoxydim
40	EST46	indoxacarb	186		Tepraloxydim
40	EST46	metaflumizone	186		Pendimethalin
40	EST46	flubendiamide	186		Acifluorfen
40	EST46	chlorantraniliprole	186		Imazamethabenz
40	EST46	cyazypyr(HGW86)	186		Imazamox
40	EST46	Azoxystrobin	186		Imazapic
40	EST46	Dimoxystrobin	186		Imazapyr
40	EST46	Kresoxim-methyl	186		Imazaquin

40	EST46	Orysastrobin	186		Imazethapyr
40	EST46	Pyraclostrobin	186		2,4-D
40	EST46	Trifloxystrobin	186		Chloridazon
40	EST46	Bixafen	186		Picloram
40	EST46	Boscalid	186		Picolinafen
40	EST46	Isopyrazam	186		Cyclosulfamuron
40	EST46	Metalaxyl	186		Triflusulfuron
40	EST46	Penthiopyrad	186		Atrazine
40	EST46	3-Difluoromethyl-1-methyl-1H-pyrazole-4-carboxylic acid(2',4',5'-trifluoro-biphenyl-2-yl)-amide	186		Pyroxasulfone
40	EST46	Dimethomorph	186		Bentazone
40	EST46	Difenoconazole	186		Cinidon-ethly
40	EST46	Epoxiconazole	186		Cinmethylin
40	EST46	Fluquinconazole	186		Dicamba
40	EST46	Metconazol	186		Diflufenzopyr
40	EST46	Propiconazole	186		Quinclorac
40	EST46	Prothioconazole	186		Quinmerac
40	EST46	Tebuconazole	186		Mesotrione
40	EST46	Triticonazole	186		Saflufenacil
40	EST46	Prochloraz	186		Topramezone;
40	EST46	Carbendazim	187		acephate
40	EST46	Cyprodinil	187		chlorpyrifos
40	EST46	Pyrimethanil	187		dimethoate
40	EST46	Fenpropimorph	187		methamidophos
40	EST46	Tridemorph	187		terbufos
40	EST46	Iprodione	187		aldicarb
40	EST46	5-ethyl-6-octyl-[1,2,4] triazolo[1,5-a]pyrimidine-7-ylamine	187		carbofuran
40	EST46	Mancozeb	187		bifenthrin
40	EST46	Maneb	187		cypermethrin
40	EST46	Metiram	187		alpha-cypermethrin
40	EST46	Dithianon	187		deltamethrin
40	EST46	Chlorothalonil	187		lambda-cyhalothrin
40	EST46	ThiophanateMethyl	187		tefluthrin
40	EST46	Cymoxanil	187		flufenoxuron
40	EST46	Metrafenone	187		teflubenzuron

40	EST46	Acetochlor	187	spirotetramat;
40	EST46	Dimethenamid	187	clothianidin
40	EST46	Metolachlor	187	imidacloprid
40	EST46	Metazachlor	187	thiamethoxam
40	EST46	Glyphosate	187	endosulfan
40	EST46	Glufosinate	187	fipronil
40	EST46	Sulfosate	187	abamectin
40	EST46	Fenoxaprop	187	spinosad
40	EST46	Paraquat	187	spinetoram
40	EST46	Cycloxydim	187	hydramethylnon;
40	EST46	Profoxydim	187	chlorfenapyr;
40	EST46	Sethoxydim	187	indoxacarb
40	EST46	Tepraloxydim	187	metaflumizone
40	EST46	Pendimethalin	187	flubendiamide
40	EST46	Acifluorfen	187	chlorantraniliprole
40	EST46	Imazamethabenz	187	cyazypyr(HGW86)
40	EST46	Imazamox	187	Azoxystrobin
40	EST46	Imazapic	187	Dimoxystrobin
40	EST46	Imazapyr	187	Kresoxim-methyl
40	EST46	Imazaquin	187	Orysastrobin
40	EST46	Imazethapyr	187	Pyraclostrobin
40	EST46	2,4-D	187	Trifloxystrobin
40	EST46	Chloridazon	187	Bixafen
40	EST46	Picloram	187	Boscalid
40	EST46	Picolinafen	187	Isopyrazam
40	EST46	Cyclosulfamuron	187	Metalaxyl
40	EST46	Triflusulfuron	187	Penthiopyrad
40	EST46	Atrazine	187	3-Difluoromethyl-1-methyl-1H-pyrazole-4-carboxylic acid(2',4',5'-trifluorobiphenyl-2-yl)-amide
40	EST46	Pyroxasulfone	187	Dimethomorph
40	EST46	Bentazone	187	Difenoconazole
40	EST46	Cinidon-ethyl	187	Epoxiconazole
40	EST46	Cinmethylin	187	Fluquinconazole
40	EST46	Dicamba	187	Metconazol
40	EST46	Diflufenzopyr	187	Propiconazole
40	EST46	Quinclorac	187	Prothioconazole
40	EST46	Quinmerac	187	Tebuconazole

40	EST46	Mesotrione	187		Triticonazole
40	EST46	Saflufenacil	187		Prochloraz
40	EST46	Topramezone;	187		Carbendazim
42	EST512	acephate	187		Cyprodinil
42	EST512	chlorpyrifos	187		Pyrimethanil
42	EST512	dimethoate	187		Fenpropimorph
42	EST512	methamidophos	187		Tridemorph
42	EST512	terbufos	187		Iprodione
42	EST512	aldicarb	187		5-ethyl-6-octyl-[1,2,4] triazolo[1,5-a]pyrimidine-7-ylamine
42	EST512	carbofuran	187		Mancozeb
42	EST512	bifenthrin	187		Maneb
42	EST512	cypermethrin	187		Metiram
42	EST512	alpha-cypermethrin	187		Dithianon
42	EST512	deltamethrin	187		Chlorothalonil
42	EST512	lambda-cyhalothrin	187		ThiophanateMethyl
42	EST512	tefluthrin	187		Cymoxanil
42	EST512	flufenoxuron	187		Metrafenone
42	EST512	teflubenzuron	187		Acetochlor
42	EST512	spirotetramat;	187		Dimethenamid
42	EST512	clothianidin	187		Metolachlor
42	EST512	imidacloprid	187		Metazachlor
42	EST512	thiamethoxam	187		Glyphosate
42	EST512	endosulfan	187		Glufosinate
42	EST512	fipronil	187		Sulfosate
42	EST512	abamectin	187		Fenoxaprop
42	EST512	spinosad	187		Paraquat
42	EST512	spinetoram	187		Cycloxydim
42	EST512	hydramethylnon;	187		Profoxydim
42	EST512	chlorfenapyr;	187		Sethoxydim
42	EST512	indoxacarb	187		Tepraloxym
42	EST512	metaflumizone	187		Pendimethalin
42	EST512	flubendiamide	187		Acifluorfen
42	EST512	chlorantraniliprole	187		Imazamethabenz
42	EST512	cyazypyr(HGW86)	187		Imazamox
42	EST512	Azoxystrobin	187		Imazapic
42	EST512	Dimoxystrobin	187		Imazapyr
42	EST512	Kresoxim-methyl	187		Imazaquin

42	EST512	Orysastrobin	187		Imazethapyr
42	EST512	Pyraclostrobin	187		2,4-D
42	EST512	Trifloxystrobin	187		Chloridazon
42	EST512	Bixafen	187		Picloram
42	EST512	Boscalid	187		Picolinafen
42	EST512	Isopyrazam	187		Cyclosulfamuron
42	EST512	Metalaxyl	187		Triflusulfuron
42	EST512	Penthiopyrad	187		Atrazine
42	EST512	3-Difluoromethyl-1-methyl-1H-pyrazole-4-carboxylic acid(2',4',5'-trifluoro-biphenyl-2-yl)-amide	187		Pyroxasulfone
42	EST512	Dimethomorph	187		Bentazone
42	EST512	Difenoconazole	187		Cinidon-ethly
42	EST512	Epoxiconazole	187		Cinmethylin
42	EST512	Fluquinconazole	187		Dicamba
42	EST512	Metconazol	187		Diflufenzopyr
42	EST512	Propiconazole	187		Quinclorac
42	EST512	Prothioconazole	187		Quinmerac
42	EST512	Tebuconazole	187		Mesotrione
42	EST512	Triticonazole	187		Saflufenacil
42	EST512	Prochloraz	187		Topramezone;
42	EST512	Carbendazim	188		acephate
42	EST512	Cyprodinil	188		chlorpyrifos
42	EST512	Pyrimethanil	188		dimethoate
42	EST512	Fenpropimorph	188		methamidophos
42	EST512	Tridemorph	188		terbufos
42	EST512	Iprodione	188		aldicarb
42	EST512	5-ethyl-6-octyl-[1,2,4] triazolo[1,5-a]pyrimidine-7-ylamine	188		carbofuran
42	EST512	Mancozeb	188		bifenthrin
42	EST512	Maneb	188		cypermethrin
42	EST512	Metiram	188		alpha-cypermethrin
42	EST512	Dithianon	188		deltamethrin
42	EST512	Chlorothalonil	188		lambda-cyhalothrin
42	EST512	ThiophanateMethyl	188		tefluthrin
42	EST512	Cymoxanil	188		flufenoxuron
42	EST512	Metrafenone	188		teflubenzuron

42	EST512	Acetochlor	188		spirotetramat;
42	EST512	Dimethenamid	188		clothianidin
42	EST512	Metolachlor	188		imidacloprid
42	EST512	Metazachlor	188		thiamethoxam
42	EST512	Glyphosate	188		endosulfan
42	EST512	Glufosinate	188		fipronil
42	EST512	Sulfosate	188		abamectin
42	EST512	Fenoxaprop	188		spinosad
42	EST512	Paraquat	188		spinetoram
42	EST512	Cycloxydim	188		hydramethylnon;
42	EST512	Profoxydim	188		chlorfenapyr;
42	EST512	Sethoxydim	188		indoxacarb
42	EST512	Tepraloxydim	188		metaflumizone
42	EST512	Pendimethalin	188		flubendiamide
42	EST512	Acifluorfen	188		chlorantraniliprole
42	EST512	Imazamethabenz	188		cyazypyr(HGW86)
42	EST512	Imazamox	188		Azoxystrobin
42	EST512	Imazapic	188		Dimoxystrobin
42	EST512	Imazapyr	188		Kresoxim-methyl
42	EST512	Imazaquin	188		Orysastrobin
42	EST512	Imazethapyr	188		Pyraclostrobin
42	EST512	2,4-D	188		Trifloxystrobin
42	EST512	Chloridazon	188		Bixafen
42	EST512	Picloram	188		Boscalid
42	EST512	Picolinafen	188		Isopyrazam
42	EST512	Cyclosulfamuron	188		Metalaxyl
42	EST512	Triflurosulfuron	188		Penthiopyrad
42	EST512	Atrazine	188		3-Difluoromethyl-1-methyl-1H-pyrazole-4-carboxylic acid(2',4',5'-trifluorobiphenyl-2-yl)-amide
42	EST512	Pyroxasulfone	188		Dimethomorph
42	EST512	Bentazone	188		Difenoconazole
42	EST512	Cinidon-ethyl	188		Epoxiconazole
42	EST512	Cinmethylin	188		Fluquinconazole
42	EST512	Dicamba	188		Metconazol
42	EST512	Diflufenzopyr	188		Propiconazole
42	EST512	Quinclorac	188		Prothioconazole
42	EST512	Quinmerac	188		Tebuconazole

42	EST512	Mesotrione	188		Triticonazole
42	EST512	Saflufenacil	188		Prochloraz
42	EST512	Topramezone;	188		Carbendazim
43	PpVTP_ES T513	acephate	188		Cyprodinil
43	PpVTP_ES T513	chlorpyrifos	188		Pyrimethanil
43	PpVTP_ES T513	dimethoate	188		Fenpropimorph
43	PpVTP_ES T513	methamidophos	188		Tridemorph
43	PpVTP_ES T513	terbufos	188		Iprodione
43	PpVTP_ES T513	aldicarb	188		5-ethyl-6-octyl-[1,2,4] triazolo[1,5-a]pyri- midine-7-ylamine
43	PpVTP_ES T513	carbofuran	188		Mancozeb
43	PpVTP_ES T513	bifenthrin	188		Maneb
43	PpVTP_ES T513	cypermethrin	188		Metiram
43	PpVTP_ES T513	alpha-cypermethrin	188		Dithianon
43	PpVTP_ES T513	deltamethrin	188		Chlorothalonil
43	PpVTP_ES T513	lambda-cyhalothrin	188		ThiophanateMethyl
43	PpVTP_ES T513	tefluthrin	188		Cymoxanil
43	PpVTP_ES T513	flufenoxuron	188		Metrafenone
43	PpVTP_ES T513	teflubenzuron	188		Acetochlor
43	PpVTP_ES T513	spirotetramat;	188		Dimethenamid
43	PpVTP_ES T513	clothianidin	188		Metolachlor
43	PpVTP_ES T513	imidacloprid	188		Metazachlor
43	PpVTP_ES T513	thiamethoxam	188		Glyphosate
43	PpVTP_ES T513	endosulfan	188		Glufosinate
43	PpVTP_ES	fipronil	188		Sulfosate

	T513				
43	PpVTP_ES T513	abamectin	188		Fenoxaprop
43	PpVTP_ES T513	spinosad	188		Paraquat
43	PpVTP_ES T513	spinetoram	188		Cycloxydim
43	PpVTP_ES T513	hydramethylnon;	188		Profoxydim
43	PpVTP_ES T513	chlorfenapyr;	188		Sethoxydim
43	PpVTP_ES T513	indoxacarb	188		Tepraloxydim
43	PpVTP_ES T513	metaflumizone	188		Pendimethalin
43	PpVTP_ES T513	flubendiamide	188		Acifluorfen
43	PpVTP_ES T513	chlorantraniliprole	188		Imazamethabenz
43	PpVTP_ES T513	cyazypyr(HGW86)	188		Imazamox
43	PpVTP_ES T513	Azoxystrobin	188		Imazapic
43	PpVTP_ES T513	Dimoxystrobin	188		Imazapyr
43	PpVTP_ES T513	Kresoxim-methyl	188		Imazaquin
43	PpVTP_ES T513	Orysastrobin	188		Imazethapyr
43	PpVTP_ES T513	Pyraclostrobin	188		2,4-D
43	PpVTP_ES T513	Trifloxystrobin	188		Chloridazon
43	PpVTP_ES T513	Bixafen	188		Picloram
43	PpVTP_ES T513	Boscalid	188		Picolinafen
43	PpVTP_ES T513	Isopyrazam	188		Cyclosulfamuron
43	PpVTP_ES T513	Metalaxyl	188		Triflusulfuron
43	PpVTP_ES T513	Penthiopyrad	188		Atrazine
43	PpVTP_ES T513	3-Difluoromethyl-1- methyl-1H-pyrazole-	188		Pyroxasulfone

		4-carboxylic acid(2',4',5'-trifluoro-biphenyl-2-yl)-amide			
43	PpVTP_ES T513	Dimethomorph	188		Bentazone
43	PpVTP_ES T513	Difenoconazole	188		Cinidon-ethly
43	PpVTP_ES T513	Epoxiconazole	188		Cinmethylin
43	PpVTP_ES T513	Fluquinconazole	188		Dicamba
43	PpVTP_ES T513	Metconazol	188		Diflufenzopyr
43	PpVTP_ES T513	Propiconazole	188		Quinclorac
43	PpVTP_ES T513	Prothioconazole	188		Quinmerac
43	PpVTP_ES T513	Tebuconazole	188		Mesotrione
43	PpVTP_ES T513	Triticonazole	188		Saflufenacil
43	PpVTP_ES T513	Prochloraz	188		Topramezone;
43	PpVTP_ES T513	Carbendazim	189	_CDS3298	acephate
43	PpVTP_ES T513	Cyprodinil	189	_CDS3298	chlorpyrifos
43	PpVTP_ES T513	Pyrimethanil	189	_CDS3298	dimethoate
43	PpVTP_ES T513	Fenpropimorph	189	_CDS3298	methamidophos
43	PpVTP_ES T513	Tridemorph	189	_CDS3298	terbufos
43	PpVTP_ES T513	Iprodione	189	_CDS3298	aldicarb
43	PpVTP_ES T513	5-ethyl-6-octyl-[1,2,4] triazolo[1,5-a]pyrimidine-7-ylamine	189	_CDS3298	carbofuran
43	PpVTP_ES T513	Mancozeb	189	_CDS3298	bifenthrin
43	PpVTP_ES T513	Maneb	189	_CDS3298	cypermethrin
43	PpVTP_ES T513	Metiram	189	_CDS3298	alpha-cypermethrin
43	PpVTP_ES T513	Dithianon	189	_CDS3298	deltamethrin

43	PpVTP_ES T513	Chlorothalonil	189	_CDS3298	lambda-cyhalothrin
43	PpVTP_ES T513	ThiophanateMethyl	189	_CDS3298	tefluthrin
43	PpVTP_ES T513	Cymoxanil	189	_CDS3298	flufenoxuron
43	PpVTP_ES T513	Metrafenone	189	_CDS3298	teflubenzuron
43	PpVTP_ES T513	Acetochlor	189	_CDS3298	spirotetramat;
43	PpVTP_ES T513	Dimethenamid	189	_CDS3298	clothianidin
43	PpVTP_ES T513	Metolachlor	189	_CDS3298	imidacloprid
43	PpVTP_ES T513	Metazachlor	189	_CDS3298	thiamethoxam
43	PpVTP_ES T513	Glyphosate	189	_CDS3298	endosulfan
43	PpVTP_ES T513	Glufosinate	189	_CDS3298	fipronil
43	PpVTP_ES T513	Sulfosate	189	_CDS3298	abamectin
43	PpVTP_ES T513	Fenoxaprop	189	_CDS3298	spinosad
43	PpVTP_ES T513	Paraquat	189	_CDS3298	spinetoram
43	PpVTP_ES T513	Cycloxydim	189	_CDS3298	hydramethylnon;
43	PpVTP_ES T513	Profoxydim	189	_CDS3298	chlorfenapyr;
43	PpVTP_ES T513	Sethoxydim	189	_CDS3298	indoxacarb
43	PpVTP_ES T513	Tepraloxydim	189	_CDS3298	metaflumizone
43	PpVTP_ES T513	Pendimethalin	189	_CDS3298	flubendiamide
43	PpVTP_ES T513	Acifluorfen	189	_CDS3298	chlorantraniliprole
43	PpVTP_ES T513	Imazamethabenz	189	_CDS3298	cyazypyr(HGW86)
43	PpVTP_ES T513	Imazamox	189	_CDS3298	Azoxystrobin
43	PpVTP_ES T513	Imazapic	189	_CDS3298	Dimoxystrobin
43	PpVTP_ES	Imazapyr	189	_CDS3298	Kresoxim-methyl

	T513				
43	PpVTP_ES T513	Imazaquin	189	_CDS3298	Orysastrobin
43	PpVTP_ES T513	Imazethapyr	189	_CDS3298	Pyraclostrobin
43	PpVTP_ES T513	2,4-D	189	_CDS3298	Trifloxystrobin
43	PpVTP_ES T513	Chloridazon	189	_CDS3298	Bixafen
43	PpVTP_ES T513	Picloram	189	_CDS3298	Boscalid
43	PpVTP_ES T513	Picolinafen	189	_CDS3298	Isopyrazam
43	PpVTP_ES T513	Cyclosulfamuron	189	_CDS3298	Metalaxyl
43	PpVTP_ES T513	Triflusulfuron	189	_CDS3298	Penthiopyrad
43	PpVTP_ES T513	Atrazine	189	_CDS3298	3-Difluoromethyl-1-methyl-1H-pyrazole-4-carboxylic acid(2',4',5'-trifluoro-biphenyl-2-yl)-amide
43	PpVTP_ES T513	Pyroxasulfone	189	_CDS3298	Dimethomorph
43	PpVTP_ES T513	Bentazone	189	_CDS3298	Difenoconazole
43	PpVTP_ES T513	Cinidon-ethly	189	_CDS3298	Epoxiconazole
43	PpVTP_ES T513	Cinmethylin	189	_CDS3298	Fluquinconazole
43	PpVTP_ES T513	Dicamba	189	_CDS3298	Metconazol
43	PpVTP_ES T513	Diflufenzopyr	189	_CDS3298	Propiconazole
43	PpVTP_ES T513	Quinclorac	189	_CDS3298	Prothioconazole
43	PpVTP_ES T513	Quinmerac	189	_CDS3298	Tebuconazole
43	PpVTP_ES T513	Mesotrione	189	_CDS3298	Triticonazole
43	PpVTP_ES T513	Saflufenacil	189	_CDS3298	Prochloraz
43	PpVTP_ES T513	Topramezone;	189	_CDS3298	Carbendazim
91	YKL150w	acephate	189	_CDS3298	Cyprodinil

91	YKL150w	chlorpyrifos	189	_CDS3298	Pyrimethanil
91	YKL150w	dimethoate	189	_CDS3298	Fenpropimorph
91	YKL150w	methamidophos	189	_CDS3298	Tridemorph
91	YKL150w	terbufos	189	_CDS3298	Iprodione
91	YKL150w	aldicarb	189	_CDS3298	5-ethyl-6-octyl-[1,2,4] triazolo[1,5-a]pyrimidine-7-ylamine
91	YKL150w	carbofuran	189	_CDS3298	Mancozeb
91	YKL150w	bifenthrin	189	_CDS3298	Maneb
91	YKL150w	cypermethrin	189	_CDS3298	Metiram
91	YKL150w	alpha-cypermethrin	189	_CDS3298	Dithianon
91	YKL150w	deltamethrin	189	_CDS3298	Chlorothalonil
91	YKL150w	lambda-cyhalothrin	189	_CDS3298	ThiophanateMethyl
91	YKL150w	tefluthrin	189	_CDS3298	Cymoxanil
91	YKL150w	flufenoxuron	189	_CDS3298	Metrafenone
91	YKL150w	teflubenzuron	189	_CDS3298	Acetochlor
91	YKL150w	spirotetramat;	189	_CDS3298	Dimethenamid
91	YKL150w	clothianidin	189	_CDS3298	Metolachlor
91	YKL150w	imidacloprid	189	_CDS3298	Metazachlor
91	YKL150w	thiamethoxam	189	_CDS3298	Glyphosate
91	YKL150w	endosulfan	189	_CDS3298	Glufosinate
91	YKL150w	fipronil	189	_CDS3298	Sulfosate
91	YKL150w	abamectin	189	_CDS3298	Fenoxaprop
91	YKL150w	spinosad	189	_CDS3298	Paraquat
91	YKL150w	spinetoram	189	_CDS3298	Cycloxydim
91	YKL150w	hydramethylnon;	189	_CDS3298	Profoxydim
91	YKL150w	chlorfenapyr;	189	_CDS3298	Sethoxydim
91	YKL150w	indoxacarb	189	_CDS3298	Tepraloxydim
91	YKL150w	metaflumizone	189	_CDS3298	Pendimethalin
91	YKL150w	flubendiamide	189	_CDS3298	Acifluorfen
91	YKL150w	chlorantraniliprole	189	_CDS3298	Imazamethabenz
91	YKL150w	cyazypyr(HGW86)	189	_CDS3298	Imazamox
91	YKL150w	Azoxystrobin	189	_CDS3298	Imazapic
91	YKL150w	Dimoxystrobin	189	_CDS3298	Imazapyr
91	YKL150w	Kresoxim-methyl	189	_CDS3298	Imazaquin
91	YKL150w	Orysastrobin	189	_CDS3298	Imazethapyr
91	YKL150w	Pyraclostrobin	189	_CDS3298	2,4-D
91	YKL150w	Trifloxystrobin	189	_CDS3298	Chloridazon
91	YKL150w	Bixafen	189	_CDS3298	Picloram

91	YKL150w	Boscalid	189	_CDS3298	Picolinafen
91	YKL150w	Isopyrazam	189	_CDS3298	Cyclosulfamuron
91	YKL150w	Metalaxyl	189	_CDS3298	Triflusulfuron
91	YKL150w	Penthiopyrad	189	_CDS3298	Atrazine
91	YKL150w	3-Difluoromethyl-1-methyl-1H-pyrazole-4-carboxylic acid(2',4',5'-trifluoro-biphenyl-2-yl)-amide	189	_CDS3298	Pyroxasulfone
91	YKL150w	Dimethomorph	189	_CDS3298	Bentazone
91	YKL150w	Difenoconazole	189	_CDS3298	Cinidon-ethly
91	YKL150w	Epoxiconazole	189	_CDS3298	Cinmethylin
91	YKL150w	Fluquinconazole	189	_CDS3298	Dicamba
91	YKL150w	Metconazol	189	_CDS3298	Diflufenzopyr
91	YKL150w	Propiconazole	189	_CDS3298	Quinclorac
91	YKL150w	Prothioconazole	189	_CDS3298	Quinmerac
91	YKL150w	Tebuconazole	189	_CDS3298	Mesotrione
91	YKL150w	Triticonazole	189	_CDS3298	Saflufenacil
91	YKL150w	Prochloraz	189	_CDS3298	Topramezone;
91	YKL150w	Carbendazim	190		acephate
91	YKL150w	Cyprodinil	190		chlorpyrifos
91	YKL150w	Pyrimethanil	190		dimethoate
91	YKL150w	Fenpropimorph	190		methamidophos
91	YKL150w	Tridemorph	190		terbufos
91	YKL150w	Iprodione	190		aldicarb
91	YKL150w	5-ethyl-6-octyl-[1,2,4] triazolo[1,5-a]pyrimidine-7-ylamine	190		carbofuran
91	YKL150w	Mancozeb	190		bifenthrin
91	YKL150w	Maneb	190		cypermethrin
91	YKL150w	Metiram	190		alpha-cypermethrin
91	YKL150w	Dithianon	190		deltamethrin
91	YKL150w	Chlorothalonil	190		lambda-cyhalothrin
91	YKL150w	ThiophanateMethyl	190		tefluthrin
91	YKL150w	Cymoxanil	190		flufenoxuron
91	YKL150w	Metrafenone	190		teflubenzuron
91	YKL150w	Acetochlor	190		spirotetramat;
91	YKL150w	Dimethenamid	190		clothianidin
91	YKL150w	Metolachlor	190		imidacloprid
91	YKL150w	Metazachlor	190		thiamethoxam

91	YKL150w	Glyphosate	190		endosulfan
91	YKL150w	Glufosinate	190		fipronil
91	YKL150w	Sulfosate	190		abamectin
91	YKL150w	Fenoxaprop	190		spinosad
91	YKL150w	Paraquat	190		spinetoram
91	YKL150w	Cycloxydim	190		hydramethylnon;
91	YKL150w	Profoxydim	190		chlorfenapyr;
91	YKL150w	Sethoxydim	190		indoxacarb
91	YKL150w	Tepraloxym	190		metaflumizone
91	YKL150w	Pendimethalin	190		flubendiamide
91	YKL150w	Acifluorfen	190		chlorantraniliprole
91	YKL150w	Imazamethabenz	190		cyazypyr(HGW86)
91	YKL150w	Imazamox	190		Azoxystrobin
91	YKL150w	Imazapic	190		Dimoxystrobin
91	YKL150w	Imazapyr	190		Kresoxim-methyl
91	YKL150w	Imazaquin	190		Orysastrobin
91	YKL150w	Imazethapyr	190		Pyraclostrobin
91	YKL150w	2,4-D	190		Trifloxystrobin
91	YKL150w	Chloridazon	190		Bixafen
91	YKL150w	Picloram	190		Boscalid
91	YKL150w	Picolinafen	190		Isopyrazam
91	YKL150w	Cyclosulfamuron	190		Metalaxyl
91	YKL150w	Triflusulfuron	190		Penthiopyrad
91	YKL150w	Atrazine	190		3-Difluoromethyl-1-methyl-1H-pyrazole-4-carboxylic acid(2',4',5'-trifluoro-biphenyl-2-yl)-amide
91	YKL150w	Pyroxasulfone	190		Dimethomorph
91	YKL150w	Bentazone	190		Difenoconazole
91	YKL150w	Cinidon-ethyl	190		Epoxiconazole
91	YKL150w	Cinmethylin	190		Fluquinconazole
91	YKL150w	Dicamba	190		Metconazol
91	YKL150w	Diflufenzopyr	190		Propiconazole
91	YKL150w	Quinclorac	190		Prothioconazole
91	YKL150w	Quinmerac	190		Tebuconazole
91	YKL150w	Mesotrione	190		Triticonazole
91	YKL150w	Saflufenacil	190		Prochloraz
91	YKL150w	Topramezone;	190		Carbendazim
105	YNL079C	acephate	190		Cyprodinil

105	YNL079C	chlorpyrifos	190		Pyrimethanil
105	YNL079C	dimethoate	190		Fenpropimorph
105	YNL079C	methamidophos	190		Tridemorph
105	YNL079C	terbufos	190		Iprodione
105	YNL079C	aldicarb	190		5-ethyl-6-octyl-[1,2,4] triazolo[1,5-a]pyrimidine-7-ylamine
105	YNL079C	carbofuran	190		Mancozeb
105	YNL079C	bifenthrin	190		Maneb
105	YNL079C	cypermethrin	190		Metiram
105	YNL079C	alpha-cypermethrin	190		Dithianon
105	YNL079C	deltamethrin	190		Chlorothalonil
105	YNL079C	lambda-cyhalothrin	190		ThiophanateMethyl
105	YNL079C	tefluthrin	190		Cymoxanil
105	YNL079C	flufenoxuron	190		Metrafenone
105	YNL079C	teflubenzuron	190		Acetochlor
105	YNL079C	spirotetramat;	190		Dimethenamid
105	YNL079C	clothianidin	190		Metolachlor
105	YNL079C	imidacloprid	190		Metazachlor
105	YNL079C	thiamethoxam	190		Glyphosate
105	YNL079C	endosulfan	190		Glufosinate
105	YNL079C	fipronil	190		Sulfosate
105	YNL079C	abamectin	190		Fenoxaprop
105	YNL079C	spinosad	190		Paraquat
105	YNL079C	spinetoram	190		Cycloxydim
105	YNL079C	hydramethylnon;	190		Profoxydim
105	YNL079C	chlorfenapyr;	190		Sethoxydim
105	YNL079C	indoxacarb	190		Tepraloxydim
105	YNL079C	metaflumizone	190		Pendimethalin
105	YNL079C	flubendiamide	190		Acifluorfen
105	YNL079C	chlorantraniliprole	190		Imazamethabenz
105	YNL079C	cyazypyr(HGW86)	190		Imazamox
105	YNL079C	Azoxystrobin	190		Imazapic
105	YNL079C	Dimoxystrobin	190		Imazapyr
105	YNL079C	Kresoxim-methyl	190		Imazaquin
105	YNL079C	Orysastrobin	190		Imazethapyr
105	YNL079C	Pyraclostrobin	190		2,4-D
105	YNL079C	Trifloxystrobin	190		Chloridazon
105	YNL079C	Bixafen	190		Picloram

105	YNL079C	Boscalid	190		Picolinafen
105	YNL079C	Isopyrazam	190		Cyclosulfamuron
105	YNL079C	Metalaxyl	190		Triflusulfuron
105	YNL079C	Penthiopyrad	190		Atrazine
105	YNL079C	3-Difluoromethyl-1-methyl-1H-pyrazole-4-carboxylic acid(2',4',5'-trifluoro-biphenyl-2-yl)-amide	190		Pyroxasulfone
105	YNL079C	Dimethomorph	190		Bentazone
105	YNL079C	Difenoconazole	190		Cinidon-ethly
105	YNL079C	Epoxiconazole	190		Cinmethylin
105	YNL079C	Fluquinconazole	190		Dicamba
105	YNL079C	Metconazol	190		Diflufenzopyr
105	YNL079C	Propiconazole	190		Quinclorac
105	YNL079C	Prothioconazole	190		Quinmerac
105	YNL079C	Tebuconazole	190		Mesotrione
105	YNL079C	Triticonazole	190		Saflufenacil
105	YNL079C	Prochloraz	190		Topramezone;
105	YNL079C	Carbendazim	194	YIL172C	acephate
105	YNL079C	Cyprodinil	194	YIL172C	chlorpyrifos
105	YNL079C	Pyrimethanil	194	YIL172C	dimethoate
105	YNL079C	Fenpropimorph	194	YIL172C	methamidophos
105	YNL079C	Tridemorph	194	YIL172C	terbufos
105	YNL079C	Iprodione	194	YIL172C	aldicarb
105	YNL079C	5-ethyl-6-octyl-[1,2,4] triazolo[1,5-a]pyrimidine-7-ylamine	194	YIL172C	carbofuran
105	YNL079C	Mancozeb	194	YIL172C	bifenthrin
105	YNL079C	Maneb	194	YIL172C	cypermethrin
105	YNL079C	Metiram	194	YIL172C	alpha-cypermethrin
105	YNL079C	Dithianon	194	YIL172C	deltamethrin
105	YNL079C	Chlorothalonil	194	YIL172C	lambda-cyhalothrin
105	YNL079C	ThiophanateMethyl	194	YIL172C	tefluthrin
105	YNL079C	Cymoxanil	194	YIL172C	flufenoxuron
105	YNL079C	Metrafenone	194	YIL172C	teflubenzuron
105	YNL079C	Acetochlor	194	YIL172C	spirotetramat;
105	YNL079C	Dimethenamid	194	YIL172C	clothianidin
105	YNL079C	Metolachlor	194	YIL172C	imidacloprid
105	YNL079C	Metazachlor	194	YIL172C	thiamethoxam

105	YNL079C	Glyphosate	194	YIL172C	endosulfan
105	YNL079C	Glufosinate	194	YIL172C	fipronil
105	YNL079C	Sulfosate	194	YIL172C	abamectin
105	YNL079C	Fenoxaprop	194	YIL172C	spinosad
105	YNL079C	Paraquat	194	YIL172C	spinetoram
105	YNL079C	Cycloxydim	194	YIL172C	hydramethylnon;
105	YNL079C	Profoxydim	194	YIL172C	chlorfenapyr;
105	YNL079C	Sethoxydim	194	YIL172C	indoxacarb
105	YNL079C	Tepraloxydim	194	YIL172C	metaflumizone
105	YNL079C	Pendimethalin	194	YIL172C	flubendiamide
105	YNL079C	Acifluorfen	194	YIL172C	chlorantraniliprole
105	YNL079C	Imazamethabenz	194	YIL172C	cyazypyr(HGW86)
105	YNL079C	Imazamox	194	YIL172C	Azoxystrobin
105	YNL079C	Imazapic	194	YIL172C	Dimoxystrobin
105	YNL079C	Imazapyr	194	YIL172C	Kresoxim-methyl
105	YNL079C	Imazaquin	194	YIL172C	Orysastrobin
105	YNL079C	Imazethapyr	194	YIL172C	Pyraclostrobin
105	YNL079C	2,4-D	194	YIL172C	Trifloxystrobin
105	YNL079C	Chloridazon	194	YIL172C	Bixafen
105	YNL079C	Picloram	194	YIL172C	Boscalid
105	YNL079C	Picolinafen	194	YIL172C	Isopyrazam
105	YNL079C	Cyclosulfamuron	194	YIL172C	Metalaxyl
105	YNL079C	Triflusulfuron	194	YIL172C	Penthiopyrad
105	YNL079C	Atrazine	194	YIL172C	3-Difluoromethyl-1-methyl-1H-pyrazole-4-carboxylic acid(2',4',5'-trifluoro-biphenyl-2-yl)-amide
105	YNL079C	Pyroxasulfone	194	YIL172C	Dimethomorph
105	YNL079C	Bentazone	194	YIL172C	Difenoconazole
105	YNL079C	Cinidon-ethyl	194	YIL172C	Epoxiconazole
105	YNL079C	Cinmethylin	194	YIL172C	Fluquinconazole
105	YNL079C	Dicamba	194	YIL172C	Metconazol
105	YNL079C	Diflufenzopyr	194	YIL172C	Propiconazole
105	YNL079C	Quinclorac	194	YIL172C	Prothioconazole
105	YNL079C	Quinmerac	194	YIL172C	Tebuconazole
105	YNL079C	Mesotrione	194	YIL172C	Triticonazole
105	YNL079C	Saflufenacil	194	YIL172C	Prochloraz
105	YNL079C	Topramezone;	194	YIL172C	Carbendazim
107	YMR100W	acephate	194	YIL172C	Cyprodinil

107	YMR100W	chlorpyrifos	194	YIL172C	Pyrimethanil
107	YMR100W	dimethoate	194	YIL172C	Fenpropimorph
107	YMR100W	methamidophos	194	YIL172C	Tridemorph
107	YMR100W	terbufos	194	YIL172C	Iprodione
107	YMR100W	aldicarb	194	YIL172C	5-ethyl-6-octyl-[1,2,4] triazolo[1,5-a]pyrimidine-7-ylamine
107	YMR100W	carbofuran	194	YIL172C	Mancozeb
107	YMR100W	bifenthrin	194	YIL172C	Maneb
107	YMR100W	cypermethrin	194	YIL172C	Metiram
107	YMR100W	alpha-cypermethrin	194	YIL172C	Dithianon
107	YMR100W	deltamethrin	194	YIL172C	Chlorothalonil
107	YMR100W	lambda-cyhalothrin	194	YIL172C	ThiophanateMethyl
107	YMR100W	tefluthrin	194	YIL172C	Cymoxanil
107	YMR100W	flufenoxuron	194	YIL172C	Metrafenone
107	YMR100W	teflubenzuron	194	YIL172C	Acetochlor
107	YMR100W	spirotetramat;	194	YIL172C	Dimethenamid
107	YMR100W	clothianidin	194	YIL172C	Metolachlor
107	YMR100W	imidacloprid	194	YIL172C	Metazachlor
107	YMR100W	thiamethoxam	194	YIL172C	Glyphosate
107	YMR100W	endosulfan	194	YIL172C	Glufosinate
107	YMR100W	fipronil	194	YIL172C	Sulfosate
107	YMR100W	abamectin	194	YIL172C	Fenoxaprop
107	YMR100W	spinosad	194	YIL172C	Paraquat
107	YMR100W	spinetoram	194	YIL172C	Cycloxydim
107	YMR100W	hydramethylnon;	194	YIL172C	Profoxydim
107	YMR100W	chlorfenapyr;	194	YIL172C	Sethoxydim
107	YMR100W	indoxacarb	194	YIL172C	Tepraloxydim
107	YMR100W	metaflumizone	194	YIL172C	Pendimethalin
107	YMR100W	flubendiamide	194	YIL172C	Acifluorfen
107	YMR100W	chlorantraniliprole	194	YIL172C	Imazamethabenz
107	YMR100W	cyazypyr(HGW86)	194	YIL172C	Imazamox
107	YMR100W	Azoxystrobin	194	YIL172C	Imazapic
107	YMR100W	Dimoxystrobin	194	YIL172C	Imazapyr
107	YMR100W	Kresoxim-methyl	194	YIL172C	Imazaquin
107	YMR100W	Orysastrobin	194	YIL172C	Imazethapyr
107	YMR100W	Pyraclostrobin	194	YIL172C	2,4-D
107	YMR100W	Trifloxystrobin	194	YIL172C	Chloridazon
107	YMR100W	Bixafen	194	YIL172C	Picloram

107	YMR100W	Boscalid	194	YIL172C	Picolinafen
107	YMR100W	Isopyrazam	194	YIL172C	Cyclosulfamuron
107	YMR100W	Metalaxyl	194	YIL172C	Triflusulfuron
107	YMR100W	Penthiopyrad	194	YIL172C	Atrazine
107	YMR100W	3-Difluoromethyl-1-methyl-1H-pyrazole-4-carboxylic acid(2',4',5'-trifluoro-biphenyl-2-yl)-amide	194	YIL172C	Pyroxasulfone
107	YMR100W	Dimethomorph	194	YIL172C	Bentazone
107	YMR100W	Difenoconazole	194	YIL172C	Cinidon-ethly
107	YMR100W	Epoxiconazole	194	YIL172C	Cinmethylin
107	YMR100W	Fluquinconazole	194	YIL172C	Dicamba
107	YMR100W	Metconazol	194	YIL172C	Diflufenzopyr
107	YMR100W	Propiconazole	194	YIL172C	Quinclorac
107	YMR100W	Prothioconazole	194	YIL172C	Quinmerac
107	YMR100W	Tebuconazole	194	YIL172C	Mesotrione
107	YMR100W	Triticonazole	194	YIL172C	Saflufenacil
107	YMR100W	Prochloraz	194	YIL172C	Topramezone;
107	YMR100W	Carbendazim	196	YMR217W	acephate
107	YMR100W	Cyprodinil	196	YMR217W	chlorpyrifos
107	YMR100W	Pyrimethanil	196	YMR217W	dimethoate
107	YMR100W	Fenpropimorph	196	YMR217W	methamidophos
107	YMR100W	Tridemorph	196	YMR217W	terbufos
107	YMR100W	Iprodione	196	YMR217W	aldicarb
107	YMR100W	5-ethyl-6-octyl-[1,2,4]triazolo[1,5-a]pyrimidine-7-ylamine	196	YMR217W	carbofuran
107	YMR100W	Mancozeb	196	YMR217W	bifenthrin
107	YMR100W	Maneb	196	YMR217W	cypermethrin
107	YMR100W	Metiram	196	YMR217W	alpha-cypermethrin
107	YMR100W	Dithianon	196	YMR217W	deltamethrin
107	YMR100W	Chlorothalonil	196	YMR217W	lambda-cyhalothrin
107	YMR100W	ThiophanateMethyl	196	YMR217W	tefluthrin
107	YMR100W	Cymoxanil	196	YMR217W	flufenoxuron
107	YMR100W	Metrafenone	196	YMR217W	teflubenzuron
107	YMR100W	Acetochlor	196	YMR217W	spirotetramat;
107	YMR100W	Dimethenamid	196	YMR217W	clothianidin
107	YMR100W	Metolachlor	196	YMR217W	imidacloprid
107	YMR100W	Metazachlor	196	YMR217W	thiamethoxam

107	YMR100W	Glyphosate	196	YMR217W	endosulfan
107	YMR100W	Glufosinate	196	YMR217W	fipronil
107	YMR100W	Sulfosate	196	YMR217W	abamectin
107	YMR100W	Fenoxaprop	196	YMR217W	spinosad
107	YMR100W	Paraquat	196	YMR217W	spinetoram
107	YMR100W	Cycloxydim	196	YMR217W	hydramethylnon;
107	YMR100W	Profoxydim	196	YMR217W	chlorfenapyr;
107	YMR100W	Sethoxydim	196	YMR217W	indoxacarb
107	YMR100W	Tepraloxydim	196	YMR217W	metaflumizone
107	YMR100W	Pendimethalin	196	YMR217W	flubendiamide
107	YMR100W	Acifluorfen	196	YMR217W	chlorantraniliprole
107	YMR100W	Imazamethabenz	196	YMR217W	cyazypyr(HGW86)
107	YMR100W	Imazamox	196	YMR217W	Azoxystrobin
107	YMR100W	Imazapic	196	YMR217W	Dimoxystrobin
107	YMR100W	Imazapyr	196	YMR217W	Kresoxim-methyl
107	YMR100W	Imazaquin	196	YMR217W	Orysastrobin
107	YMR100W	Imazethapyr	196	YMR217W	Pyraclostrobin
107	YMR100W	2,4-D	196	YMR217W	Trifloxystrobin
107	YMR100W	Chloridazon	196	YMR217W	Bixafen
107	YMR100W	Picloram	196	YMR217W	Boscalid
107	YMR100W	Picolinafen	196	YMR217W	Isopyrazam
107	YMR100W	Cyclosulfamuron	196	YMR217W	Metalaxyl
107	YMR100W	Triflusulfuron	196	YMR217W	Penthiopyrad
107	YMR100W	Atrazine	196	YMR217W	3-Difluoromethyl-1-methyl-1H-pyrazole-4-carboxylic acid(2',4',5'-trifluoro-biphenyl-2-yl)-amide
107	YMR100W	Pyroxasulfone	196	YMR217W	Dimethomorph
107	YMR100W	Bentazone	196	YMR217W	Difenoconazole
107	YMR100W	Cinidon-ethyl	196	YMR217W	Epoxiconazole
107	YMR100W	Cinmethylin	196	YMR217W	Fluquinconazole
107	YMR100W	Dicamba	196	YMR217W	Metconazol
107	YMR100W	Diflufenzopyr	196	YMR217W	Propiconazole
107	YMR100W	Quinclorac	196	YMR217W	Prothioconazole
107	YMR100W	Quinmerac	196	YMR217W	Tebuconazole
107	YMR100W	Mesotrione	196	YMR217W	Triticonazole
107	YMR100W	Saflufenacil	196	YMR217W	Prochloraz
107	YMR100W	Topramezone;	196	YMR217W	Carbendazim
112	YNL024c	acephate	196	YMR217W	Cyprodinil

112	YNL024c	chlorpyrifos	196	YMR217W	Pyrimethanil
112	YNL024c	dimethoate	196	YMR217W	Fenpropimorph
112	YNL024c	methamidophos	196	YMR217W	Tridemorph
112	YNL024c	terbufos	196	YMR217W	Iprodione
112	YNL024c	aldicarb	196	YMR217W	5-ethyl-6-octyl-[1,2,4] triazolo[1,5-a]pyrimidine-7-ylamine
112	YNL024c	carbofuran	196	YMR217W	Mancozeb
112	YNL024c	bifenthrin	196	YMR217W	Maneb
112	YNL024c	cypermethrin	196	YMR217W	Metiram
112	YNL024c	alpha-cypermethrin	196	YMR217W	Dithianon
112	YNL024c	deltamethrin	196	YMR217W	Chlorothalonil
112	YNL024c	lambda-cyhalothrin	196	YMR217W	ThiophanateMethyl
112	YNL024c	tefluthrin	196	YMR217W	Cymoxanil
112	YNL024c	flufenoxuron	196	YMR217W	Metrafenone
112	YNL024c	teflubenzuron	196	YMR217W	Acetochlor
112	YNL024c	spirotetramat;	196	YMR217W	Dimethenamid
112	YNL024c	clothianidin	196	YMR217W	Metolachlor
112	YNL024c	imidacloprid	196	YMR217W	Metazachlor
112	YNL024c	thiamethoxam	196	YMR217W	Glyphosate
112	YNL024c	endosulfan	196	YMR217W	Glufosinate
112	YNL024c	fipronil	196	YMR217W	Sulfosate
112	YNL024c	abamectin	196	YMR217W	Fenoxaprop
112	YNL024c	spinosad	196	YMR217W	Paraquat
112	YNL024c	spinetoram	196	YMR217W	Cycloxydim
112	YNL024c	hydramethylnon;	196	YMR217W	Profoxydim
112	YNL024c	chlorfenapyr;	196	YMR217W	Sethoxydim
112	YNL024c	indoxacarb	196	YMR217W	Tepraloxydim
112	YNL024c	metaflumizone	196	YMR217W	Pendimethalin
112	YNL024c	flubendiamide	196	YMR217W	Acifluorfen
112	YNL024c	chlorantraniliprole	196	YMR217W	Imazamethabenz
112	YNL024c	cyazypyr(HGW86)	196	YMR217W	Imazamox
112	YNL024c	Azoxystrobin	196	YMR217W	Imazapic
112	YNL024c	Dimoxystrobin	196	YMR217W	Imazapyr
112	YNL024c	Kresoxim-methyl	196	YMR217W	Imazaquin
112	YNL024c	Orysastrobin	196	YMR217W	Imazethapyr
112	YNL024c	Pyraclostrobin	196	YMR217W	2,4-D
112	YNL024c	Trifloxystrobin	196	YMR217W	Chloridazon
112	YNL024c	Bixafen	196	YMR217W	Picloram

112	YNL024c	Boscalid	196	YMR217W	Picolinafen
112	YNL024c	Isopyrazam	196	YMR217W	Cyclosulfamuron
112	YNL024c	Metalaxyl	196	YMR217W	Triflusulfuron
112	YNL024c	Penthiopyrad	196	YMR217W	Atrazine
112	YNL024c	3-Difluoromethyl-1-methyl-1H-pyrazole-4-carboxylic acid(2',4',5'-trifluoro-biphenyl-2-yl)-amide	196	YMR217W	Pyroxasulfone
112	YNL024c	Dimethomorph	196	YMR217W	Bentazone
112	YNL024c	Difenoconazole	196	YMR217W	Cinidon-ethly
112	YNL024c	Epoxiconazole	196	YMR217W	Cinmethylin
112	YNL024c	Fluquinconazole	196	YMR217W	Dicamba
112	YNL024c	Metconazol	196	YMR217W	Diflufenzopyr
112	YNL024c	Propiconazole	196	YMR217W	Quinclorac
112	YNL024c	Prothioconazole	196	YMR217W	Quinmerac
112	YNL024c	Tebuconazole	196	YMR217W	Mesotrione
112	YNL024c	Triticonazole	196	YMR217W	Saflufenacil
112	YNL024c	Prochloraz	196	YMR217W	Topramezone;
112	YNL024c	Carbendazim			
203	GOICDS_C DS1608	acephate	204		acephate
203	GOICDS_C DS1608	chlorpyrifos	204		chlorpyrifos
203	GOICDS_C DS1608	dimethoate	204		dimethoate
203	GOICDS_C DS1608	methamidophos	204		methamidophos
203	GOICDS_C DS1608	terbufos	204		terbufos
203	GOICDS_C DS1608	aldicarb	204		aldicarb
203	GOICDS_C DS1608	carbofuran	204		carbofuran
203	GOICDS_C DS1608	bifenthrin	204		bifenthrin
203	GOICDS_C DS1608	cypermethrin	204		cypermethrin
203	GOICDS_C DS1608	alpha-cypermethrin	204		alpha-cypermethrin
203	GOICDS_C DS1608	deltamethrin	204		deltamethrin
203	GOICDS_C DS1608	lambda-cyhalothrin	204		lambda-cyhalothrin

	DS1608				
203	GOICDS_C DS1608	tefluthrin	204		tefluthrin
203	GOICDS_C DS1608	flufenoxuron	204		flufenoxuron
203	GOICDS_C DS1608	teflubenzuron	204		teflubenzuron
203	GOICDS_C DS1608	spirotetramat;	204		spirotetramat;
203	GOICDS_C DS1608	clothianidin	204		clothianidin
203	GOICDS_C DS1608	imidacloprid	204		imidacloprid
203	GOICDS_C DS1608	thiamethoxam	204		thiamethoxam
203	GOICDS_C DS1608	endosulfan	204		endosulfan
203	GOICDS_C DS1608	fipronil	204		fipronil
203	GOICDS_C DS1608	abamectin	204		abamectin
203	GOICDS_C DS1608	spinosad	204		spinosad
203	GOICDS_C DS1608	spinetoram	204		spinetoram
203	GOICDS_C DS1608	hydramethylnon;	204		hydramethylnon;
203	GOICDS_C DS1608	chlorfenapyr;	204		chlorfenapyr;
203	GOICDS_C DS1608	indoxacarb	204		indoxacarb
203	GOICDS_C DS1608	metaflumizone	204		metaflumizone
203	GOICDS_C DS1608	flubendiamide	204		flubendiamide
203	GOICDS_C DS1608	chlorantraniliprole	204		chlorantraniliprole
203	GOICDS_C DS1608	cyazypyr(HGW86)	204		cyazypyr(HGW86)
203	GOICDS_C DS1608	Azoxystrobin	204		Azoxystrobin
203	GOICDS_C DS1608	Dimoxystrobin	204		Dimoxystrobin
203	GOICDS_C DS1608	Kresoxim-methyl	204		Kresoxim-methyl

203	GOICDS_C DS1608	Orysastrobin	204		Orysastrobin
203	GOICDS_C DS1608	Pyraclostrobin	204		Pyraclostrobin
203	GOICDS_C DS1608	Trifloxystrobin	204		Trifloxystrobin
203	GOICDS_C DS1608	Bixafen	204		Bixafen
203	GOICDS_C DS1608	Boscalid	204		Boscalid
203	GOICDS_C DS1608	Isopyrazam	204		Isopyrazam
203	GOICDS_C DS1608	Metalaxyl	204		Metalaxyl
203	GOICDS_C DS1608	Penthiopyrad	204		Penthiopyrad
203	GOICDS_C DS1608	3-Difluoromethyl-1-methyl-1H-pyrazole-4-carboxylic acid(2',4',5'-trifluorobiphenyl-2-yl)-amide	204		3-Difluoromethyl-1-methyl-1H-pyrazole-4-carboxylic acid(2',4',5'-trifluorobiphenyl-2-yl)-amide
203	GOICDS_C DS1608	Dimethomorph	204		Dimethomorph
203	GOICDS_C DS1608	Difenoconazole	204		Difenoconazole
203	GOICDS_C DS1608	Epoxiconazole	204		Epoxiconazole
203	GOICDS_C DS1608	Fluquinconazole	204		Fluquinconazole
203	GOICDS_C DS1608	Metconazol	204		Metconazol
203	GOICDS_C DS1608	Propiconazole	204		Propiconazole
203	GOICDS_C DS1608	Prothioconazole	204		Prothioconazole
203	GOICDS_C DS1608	Tebuconazole	204		Tebuconazole
203	GOICDS_C DS1608	Triticonazole	204		Triticonazole
203	GOICDS_C DS1608	Prochloraz	204		Prochloraz
203	GOICDS_C DS1608	Carbendazim	204		Carbendazim
203	GOICDS_C DS1608	Cyprodinil	204		Cyprodinil
203	GOICDS_C	Pyrimethanil	204		Pyrimethanil

	DS1608				
203	GOICDS_C DS1608	Fenpropimorph	204		Fenpropimorph
203	GOICDS_C DS1608	Tridemorph	204		Tridemorph
203	GOICDS_C DS1608	Iprodione	204		Iprodione
203	GOICDS_C DS1608	5-ethyl-6-octyl-[1,2,4] triazolo[1,5-a]pyri- midine-7-ylamine	204		5-ethyl-6-octyl-[1,2,4] triazolo[1,5-a]pyri- midine-7-ylamine
203	GOICDS_C DS1608	Mancozeb	204		Mancozeb
203	GOICDS_C DS1608	Maneb	204		Maneb
203	GOICDS_C DS1608	Metiram	204		Metiram
203	GOICDS_C DS1608	Dithianon	204		Dithianon
203	GOICDS_C DS1608	Chlorothalonil	204		Chlorothalonil
203	GOICDS_C DS1608	ThiophanateMethyl	204		ThiophanateMethyl
203	GOICDS_C DS1608	Cymoxanil	204		Cymoxanil
203	GOICDS_C DS1608	Metrafenone	204		Metrafenone
203	GOICDS_C DS1608	Acetochlor	204		Acetochlor
203	GOICDS_C DS1608	Dimethenamid	204		Dimethenamid
203	GOICDS_C DS1608	Metolachlor	204		Metolachlor
203	GOICDS_C DS1608	Metazachlor	204		Metazachlor
203	GOICDS_C DS1608	Glyphosate	204		Glyphosate
203	GOICDS_C DS1608	Glufosinate	204		Glufosinate
203	GOICDS_C DS1608	Sulfosate	204		Sulfosate
203	GOICDS_C DS1608	Fenoxaprop	204		Fenoxaprop
203	GOICDS_C DS1608	Paraquat	204		Paraquat
203	GOICDS_C	Cycloxydim	204		Cycloxydim

	DS1608				
203	GOICDS_C DS1608	Profoxydim	204		Profoxydim
203	GOICDS_C DS1608	Sethoxydim	204		Sethoxydim
203	GOICDS_C DS1608	Tepraloxydim	204		Tepraloxydim
203	GOICDS_C DS1608	Pendimethalin	204		Pendimethalin
203	GOICDS_C DS1608	Acifluorfen	204		Acifluorfen
203	GOICDS_C DS1608	Imazamethabenz	204		Imazamethabenz
203	GOICDS_C DS1608	Imazamox	204		Imazamox
203	GOICDS_C DS1608	Imazapic	204		Imazapic
203	GOICDS_C DS1608	Imazapyr	204		Imazapyr
203	GOICDS_C DS1608	Imazaquin	204		Imazaquin
203	GOICDS_C DS1608	Imazethapyr	204		Imazethapyr
203	GOICDS_C DS1608	2,4-D	204		2,4-D
203	GOICDS_C DS1608	Chloridazon	204		Chloridazon
203	GOICDS_C DS1608	Picloram	204		Picloram
203	GOICDS_C DS1608	Picolinafen	204		Picolinafen
203	GOICDS_C DS1608	Cyclosulfamuron	204		Cyclosulfamuron
203	GOICDS_C DS1608	Triflusulfuron	204		Triflusulfuron
203	GOICDS_C DS1608	Atrazine	204		Atrazine
203	GOICDS_C DS1608	Pyroxasulfone	204		Pyroxasulfone
203	GOICDS_C DS1608	Bentazone	204		Bentazone
203	GOICDS_C DS1608	Cinidon-ethly	204		Cinidon-ethly
203	GOICDS_C DS1608	Cinmethylin	204		Cinmethylin

203	GOICDS_C DS1608	Dicamba	204		Dicamba
203	GOICDS_C DS1608	Diflufenzopyr	204		Diflufenzopyr
203	GOICDS_C DS1608	Quinclorac	204		Quinclorac
203	GOICDS_C DS1608	Quinmerac	204		Quinmerac
203	GOICDS_C DS1608	Mesotrione	204		Mesotrione
203	GOICDS_C DS1608	Saflufenacil	204		Saflufenacil
203	GOICDS_C DS1608	Topramezone;	204		Topramezone;
205	GOICDS_C DS0644_7	acephate	206		acephate
205	GOICDS_C DS0644_7	chlorpyrifos	206		chlorpyrifos
205	GOICDS_C DS0644_7	dimethoate	206		dimethoate
205	GOICDS_C DS0644_7	methamidophos	206		methamidophos
205	GOICDS_C DS0644_7	terbufos	206		terbufos
205	GOICDS_C DS0644_7	aldicarb	206		aldicarb
205	GOICDS_C DS0644_7	carbofuran	206		carbofuran
205	GOICDS_C DS0644_7	bifenthrin	206		bifenthrin
205	GOICDS_C DS0644_7	cypermethrin	206		cypermethrin
205	GOICDS_C DS0644_7	alpha-cypermethrin	206		alpha-cypermethrin
205	GOICDS_C DS0644_7	deltamethrin	206		deltamethrin
205	GOICDS_C DS0644_7	lambda-cyhalothrin	206		lambda-cyhalothrin
205	GOICDS_C DS0644_7	tefluthrin	206		tefluthrin
205	GOICDS_C DS0644_7	flufenoxuron	206		flufenoxuron
205	GOICDS_C DS0644_7	teflubenzuron	206		teflubenzuron
205	GOICDS_C	spirotetramat;	206		spirotetramat;

	DS0644_7				
205	GOICDS_C DS0644_7	clothianidin	206		clothianidin
205	GOICDS_C DS0644_7	imidacloprid	206		imidacloprid
205	GOICDS_C DS0644_7	thiamethoxam	206		thiamethoxam
205	GOICDS_C DS0644_7	endosulfan	206		endosulfan
205	GOICDS_C DS0644_7	fipronil	206		fipronil
205	GOICDS_C DS0644_7	abamectin	206		abamectin
205	GOICDS_C DS0644_7	spinosad	206		spinosad
205	GOICDS_C DS0644_7	spinetoram	206		spinetoram
205	GOICDS_C DS0644_7	hydramethylnon;	206		hydramethylnon;
205	GOICDS_C DS0644_7	chlorfenapyr;	206		chlorfenapyr;
205	GOICDS_C DS0644_7	indoxacarb	206		indoxacarb
205	GOICDS_C DS0644_7	metaflumizone	206		metaflumizone
205	GOICDS_C DS0644_7	flubendiamide	206		flubendiamide
205	GOICDS_C DS0644_7	chlorantraniliprole	206		chlorantraniliprole
205	GOICDS_C DS0644_7	cyazypyr(HGW86)	206		cyazypyr(HGW86)
205	GOICDS_C DS0644_7	Azoxystrobin	206		Azoxystrobin
205	GOICDS_C DS0644_7	Dimoxystrobin	206		Dimoxystrobin
205	GOICDS_C DS0644_7	Kresoxim-methyl	206		Kresoxim-methyl
205	GOICDS_C DS0644_7	Orysastrobin	206		Orysastrobin
205	GOICDS_C DS0644_7	Pyraclostrobin	206		Pyraclostrobin
205	GOICDS_C DS0644_7	Trifloxystrobin	206		Trifloxystrobin
205	GOICDS_C DS0644_7	Bixafen	206		Bixafen

205	GOICDS_C DS0644_7	Boscalid	206		Boscalid
205	GOICDS_C DS0644_7	Isopyrazam	206		Isopyrazam
205	GOICDS_C DS0644_7	Metalaxyl	206		Metalaxyl
205	GOICDS_C DS0644_7	Penthiopyrad	206		Penthiopyrad
205	GOICDS_C DS0644_7	3-Difluoromethyl-1- methyl-1H-pyrazole- 4-carboxylic a- cid(2',4',5'-trifluoro- biphenyl-2-yl)-amide	206		3-Difluoromethyl-1- methyl-1H-pyrazole- 4-carboxylic acid(2',4',5'-trifluoro- biphenyl-2-yl)-amide
205	GOICDS_C DS0644_7	Dimethomorph	206		Dimethomorph
205	GOICDS_C DS0644_7	Difenoconazole	206		Difenoconazole
205	GOICDS_C DS0644_7	Epoxiconazole	206		Epoxiconazole
205	GOICDS_C DS0644_7	Fluquinconazole	206		Fluquinconazole
205	GOICDS_C DS0644_7	Metconazol	206		Metconazol
205	GOICDS_C DS0644_7	Propiconazole	206		Propiconazole
205	GOICDS_C DS0644_7	Prothioconazole	206		Prothioconazole
205	GOICDS_C DS0644_7	Tebuconazole	206		Tebuconazole
205	GOICDS_C DS0644_7	Triticonazole	206		Triticonazole
205	GOICDS_C DS0644_7	Prochloraz	206		Prochloraz
205	GOICDS_C DS0644_7	Carbendazim	206		Carbendazim
205	GOICDS_C DS0644_7	Cyprodinil	206		Cyprodinil
205	GOICDS_C DS0644_7	Pyrimethanil	206		Pyrimethanil
205	GOICDS_C DS0644_7	Fenpropimorph	206		Fenpropimorph
205	GOICDS_C DS0644_7	Tridemorph	206		Tridemorph
205	GOICDS_C DS0644_7	Iprodione	206		Iprodione
205	GOICDS_C	5-ethyl-6-octyl-[1,2,4]	206		5-ethyl-6-octyl-[1,2,4]

	DS0644_7	triazolo[1,5-a]pyrimidine-7-ylamine			triazolo[1,5-a]pyrimidine-7-ylamine
205	GOICDS_C DS0644_7	Mancozeb	206		Mancozeb
205	GOICDS_C DS0644_7	Maneb	206		Maneb
205	GOICDS_C DS0644_7	Metiram	206		Metiram
205	GOICDS_C DS0644_7	Dithianon	206		Dithianon
205	GOICDS_C DS0644_7	Chlorothalonil	206		Chlorothalonil
205	GOICDS_C DS0644_7	ThiophanateMethyl	206		ThiophanateMethyl
205	GOICDS_C DS0644_7	Cymoxanil	206		Cymoxanil
205	GOICDS_C DS0644_7	Metrafenone	206		Metrafenone
205	GOICDS_C DS0644_7	Acetochlor	206		Acetochlor
205	GOICDS_C DS0644_7	Dimethenamid	206		Dimethenamid
205	GOICDS_C DS0644_7	Metolachlor	206		Metolachlor
205	GOICDS_C DS0644_7	Metazachlor	206		Metazachlor
205	GOICDS_C DS0644_7	Glyphosate	206		Glyphosate
205	GOICDS_C DS0644_7	Glufosinate	206		Glufosinate
205	GOICDS_C DS0644_7	Sulfosate	206		Sulfosate
205	GOICDS_C DS0644_7	Fenoxaprop	206		Fenoxaprop
205	GOICDS_C DS0644_7	Paraquat	206		Paraquat
205	GOICDS_C DS0644_7	Cycloxydim	206		Cycloxydim
205	GOICDS_C DS0644_7	Profoxydim	206		Profoxydim
205	GOICDS_C DS0644_7	Sethoxydim	206		Sethoxydim
205	GOICDS_C DS0644_7	Tepraloxydim	206		Tepraloxydim
205	GOICDS_C	Pendimethalin	206		Pendimethalin

	DS0644_7				
205	GOICDS_C DS0644_7	Acifluorfen	206		Acifluorfen
205	GOICDS_C DS0644_7	Imazamethabenz	206		Imazamethabenz
205	GOICDS_C DS0644_7	Imazamox	206		Imazamox
205	GOICDS_C DS0644_7	Imazapic	206		Imazapic
205	GOICDS_C DS0644_7	Imazapyr	206		Imazapyr
205	GOICDS_C DS0644_7	Imazaquin	206		Imazaquin
205	GOICDS_C DS0644_7	Imazethapyr	206		Imazethapyr
205	GOICDS_C DS0644_7	2,4-D	206		2,4-D
205	GOICDS_C DS0644_7	Chloridazon	206		Chloridazon
205	GOICDS_C DS0644_7	Picloram	206		Picloram
205	GOICDS_C DS0644_7	Picolinafen	206		Picolinafen
205	GOICDS_C DS0644_7	Cyclosulfamuron	206		Cyclosulfamuron
205	GOICDS_C DS0644_7	Triflusulfuron	206		Triflusulfuron
205	GOICDS_C DS0644_7	Atrazine	206		Atrazine
205	GOICDS_C DS0644_7	Pyroxasulfone	206		Pyroxasulfone
205	GOICDS_C DS0644_7	Bentazone	206		Bentazone
205	GOICDS_C DS0644_7	Cinidon-ethly	206		Cinidon-ethly
205	GOICDS_C DS0644_7	Cinmethylin	206		Cinmethylin
205	GOICDS_C DS0644_7	Dicamba	206		Dicamba
205	GOICDS_C DS0644_7	Diflufenzopyr	206		Diflufenzopyr
205	GOICDS_C DS0644_7	Quinclorac	206		Quinclorac
205	GOICDS_C DS0644_7	Quinmerac	206		Quinmerac

205	GOICDS_C DS0644_7	Mesotrione	206		Mesotrione
205	GOICDS_C DS0644_7	Saflufenacil	206		Saflufenacil
205	GOICDS_C DS0644_7	Topramezone;	206		Topramezone;
207	GOICDS_C DS2447	acephate	209	GOISCDS_ CDS3159	acephate
207	GOICDS_C DS2447	chlorpyrifos	209	GOISCDS_ CDS3159	chlorpyrifos
207	GOICDS_C DS2447	dimethoate	209	GOISCDS_ CDS3159	dimethoate
207	GOICDS_C DS2447	methamidophos	209	GOISCDS_ CDS3159	methamidophos
207	GOICDS_C DS2447	terbufos	209	GOISCDS_ CDS3159	terbufos
207	GOICDS_C DS2447	aldicarb	209	GOISCDS_ CDS3159	aldicarb
207	GOICDS_C DS2447	carbofuran	209	GOISCDS_ CDS3159	carbofuran
207	GOICDS_C DS2447	bifenthrin	209	GOISCDS_ CDS3159	bifenthrin
207	GOICDS_C DS2447	cypermethrin	209	GOISCDS_ CDS3159	cypermethrin
207	GOICDS_C DS2447	alpha-cypermethrin	209	GOISCDS_ CDS3159	alpha-cypermethrin
207	GOICDS_C DS2447	deltamethrin	209	GOISCDS_ CDS3159	deltamethrin
207	GOICDS_C DS2447	lambda-cyhalothrin	209	GOISCDS_ CDS3159	lambda-cyhalothrin
207	GOICDS_C DS2447	tefluthrin	209	GOISCDS_ CDS3159	tefluthrin
207	GOICDS_C DS2447	flufenoxuron	209	GOISCDS_ CDS3159	flufenoxuron
207	GOICDS_C DS2447	teflubenzuron	209	GOISCDS_ CDS3159	teflubenzuron
207	GOICDS_C DS2447	spirotetramat;	209	GOISCDS_ CDS3159	spirotetramat;
207	GOICDS_C DS2447	clothianidin	209	GOISCDS_ CDS3159	clothianidin
207	GOICDS_C DS2447	imidacloprid	209	GOISCDS_ CDS3159	imidacloprid
207	GOICDS_C DS2447	thiamethoxam	209	GOISCDS_ CDS3159	thiamethoxam
207	GOICDS_C	endosulfan	209	GOISCDS_	endosulfan

	DS2447			CDS3159	
207	GOICDS_C DS2447	fipronil	209	GOISCDS_ CDS3159	fipronil
207	GOICDS_C DS2447	abamectin	209	GOISCDS_ CDS3159	abamectin
207	GOICDS_C DS2447	spinosad	209	GOISCDS_ CDS3159	spinosad
207	GOICDS_C DS2447	spinetoram	209	GOISCDS_ CDS3159	spinetoram
207	GOICDS_C DS2447	hydramethylnon;	209	GOISCDS_ CDS3159	hydramethylnon;
207	GOICDS_C DS2447	chlorfenapyr;	209	GOISCDS_ CDS3159	chlorfenapyr;
207	GOICDS_C DS2447	indoxacarb	209	GOISCDS_ CDS3159	indoxacarb
207	GOICDS_C DS2447	metaflumizone	209	GOISCDS_ CDS3159	metaflumizone
207	GOICDS_C DS2447	flubendiamide	209	GOISCDS_ CDS3159	flubendiamide
207	GOICDS_C DS2447	chlorantraniliprole	209	GOISCDS_ CDS3159	chlorantraniliprole
207	GOICDS_C DS2447	cyazypyr(HGW86)	209	GOISCDS_ CDS3159	cyazypyr(HGW86)
207	GOICDS_C DS2447	Azoxystrobin	209	GOISCDS_ CDS3159	Azoxystrobin
207	GOICDS_C DS2447	Dimoxystrobin	209	GOISCDS_ CDS3159	Dimoxystrobin
207	GOICDS_C DS2447	Kresoxim-methyl	209	GOISCDS_ CDS3159	Kresoxim-methyl
207	GOICDS_C DS2447	Orysastrobin	209	GOISCDS_ CDS3159	Orysastrobin
207	GOICDS_C DS2447	Pyraclostrobin	209	GOISCDS_ CDS3159	Pyraclostrobin
207	GOICDS_C DS2447	Trifloxystrobin	209	GOISCDS_ CDS3159	Trifloxystrobin
207	GOICDS_C DS2447	Bixafen	209	GOISCDS_ CDS3159	Bixafen
207	GOICDS_C DS2447	Boscalid	209	GOISCDS_ CDS3159	Boscalid
207	GOICDS_C DS2447	Isopyrazam	209	GOISCDS_ CDS3159	Isopyrazam
207	GOICDS_C DS2447	Metalaxyl	209	GOISCDS_ CDS3159	Metalaxyl
207	GOICDS_C DS2447	Penthiopyrad	209	GOISCDS_ CDS3159	Penthiopyrad

207	GOICDS_C DS2447	3-Difluoromethyl-1-methyl-1H-pyrazole-4-carboxylic acid(2',4',5'-trifluorobiphenyl-2-yl)-amide	209	GOISCDS_CDS3159	3-Difluoromethyl-1-methyl-1H-pyrazole-4-carboxylic acid(2',4',5'-trifluorobiphenyl-2-yl)-amide
207	GOICDS_C DS2447	Dimethomorph	209	GOISCDS_CDS3159	Dimethomorph
207	GOICDS_C DS2447	Difenoconazole	209	GOISCDS_CDS3159	Difenoconazole
207	GOICDS_C DS2447	Epoxiconazole	209	GOISCDS_CDS3159	Epoxiconazole
207	GOICDS_C DS2447	Fluquinconazole	209	GOISCDS_CDS3159	Fluquinconazole
207	GOICDS_C DS2447	Metconazol	209	GOISCDS_CDS3159	Metconazol
207	GOICDS_C DS2447	Propiconazole	209	GOISCDS_CDS3159	Propiconazole
207	GOICDS_C DS2447	Prothioconazole	209	GOISCDS_CDS3159	Prothioconazole
207	GOICDS_C DS2447	Tebuconazole	209	GOISCDS_CDS3159	Tebuconazole
207	GOICDS_C DS2447	Triticonazole	209	GOISCDS_CDS3159	Triticonazole
207	GOICDS_C DS2447	Prochloraz	209	GOISCDS_CDS3159	Prochloraz
207	GOICDS_C DS2447	Carbendazim	209	GOISCDS_CDS3159	Carbendazim
207	GOICDS_C DS2447	Cyprodinil	209	GOISCDS_CDS3159	Cyprodinil
207	GOICDS_C DS2447	Pyrimethanil	209	GOISCDS_CDS3159	Pyrimethanil
207	GOICDS_C DS2447	Fenpropimorph	209	GOISCDS_CDS3159	Fenpropimorph
207	GOICDS_C DS2447	Tridemorph	209	GOISCDS_CDS3159	Tridemorph
207	GOICDS_C DS2447	Iprodione	209	GOISCDS_CDS3159	Iprodione
207	GOICDS_C DS2447	5-ethyl-6-octyl-[1,2,4] triazolo[1,5-a]pyrimidine-7-ylamine	209	GOISCDS_CDS3159	5-ethyl-6-octyl-[1,2,4] triazolo[1,5-a]pyrimidine-7-ylamine
207	GOICDS_C DS2447	Mancozeb	209	GOISCDS_CDS3159	Mancozeb
207	GOICDS_C DS2447	Maneb	209	GOISCDS_CDS3159	Maneb
207	GOICDS_C DS2447	Metiram	209	GOISCDS_CDS3159	Metiram

207	GOICDS_C DS2447	Dithianon	209	GOISCDS_ CDS3159	Dithianon
207	GOICDS_C DS2447	Chlorothalonil	209	GOISCDS_ CDS3159	Chlorothalonil
207	GOICDS_C DS2447	ThiophanateMethyl	209	GOISCDS_ CDS3159	ThiophanateMethyl
207	GOICDS_C DS2447	Cymoxanil	209	GOISCDS_ CDS3159	Cymoxanil
207	GOICDS_C DS2447	Metrafenone	209	GOISCDS_ CDS3159	Metrafenone
207	GOICDS_C DS2447	Acetochlor	209	GOISCDS_ CDS3159	Acetochlor
207	GOICDS_C DS2447	Dimethenamid	209	GOISCDS_ CDS3159	Dimethenamid
207	GOICDS_C DS2447	Metolachlor	209	GOISCDS_ CDS3159	Metolachlor
207	GOICDS_C DS2447	Metazachlor	209	GOISCDS_ CDS3159	Metazachlor
207	GOICDS_C DS2447	Glyphosate	209	GOISCDS_ CDS3159	Glyphosate
207	GOICDS_C DS2447	Glufosinate	209	GOISCDS_ CDS3159	Glufosinate
207	GOICDS_C DS2447	Sulfosate	209	GOISCDS_ CDS3159	Sulfosate
207	GOICDS_C DS2447	Fenoxaprop	209	GOISCDS_ CDS3159	Fenoxaprop
207	GOICDS_C DS2447	Paraquat	209	GOISCDS_ CDS3159	Paraquat
207	GOICDS_C DS2447	Cycloxydim	209	GOISCDS_ CDS3159	Cycloxydim
207	GOICDS_C DS2447	Profoxydim	209	GOISCDS_ CDS3159	Profoxydim
207	GOICDS_C DS2447	Sethoxydim	209	GOISCDS_ CDS3159	Sethoxydim
207	GOICDS_C DS2447	Tepraloxydim	209	GOISCDS_ CDS3159	Tepraloxydim
207	GOICDS_C DS2447	Pendimethalin	209	GOISCDS_ CDS3159	Pendimethalin
207	GOICDS_C DS2447	Acifluorfen	209	GOISCDS_ CDS3159	Acifluorfen
207	GOICDS_C DS2447	Imazamethabenz	209	GOISCDS_ CDS3159	Imazamethabenz
207	GOICDS_C DS2447	Imazamox	209	GOISCDS_ CDS3159	Imazamox
207	GOICDS_C	Imazapic	209	GOISCDS_	Imazapic

	DS2447			CDS3159	
207	GOICDS_C DS2447	Imazapyr	209	GOISCDS_ CDS3159	Imazapyr
207	GOICDS_C DS2447	Imazaquin	209	GOISCDS_ CDS3159	Imazaquin
207	GOICDS_C DS2447	Imazethapyr	209	GOISCDS_ CDS3159	Imazethapyr
207	GOICDS_C DS2447	2,4-D	209	GOISCDS_ CDS3159	2,4-D
207	GOICDS_C DS2447	Chloridazon	209	GOISCDS_ CDS3159	Chloridazon
207	GOICDS_C DS2447	Picloram	209	GOISCDS_ CDS3159	Picloram
207	GOICDS_C DS2447	Picolinafen	209	GOISCDS_ CDS3159	Picolinafen
207	GOICDS_C DS2447	Cyclosulfamuron	209	GOISCDS_ CDS3159	Cyclosulfamuron
207	GOICDS_C DS2447	Triflusulfuron	209	GOISCDS_ CDS3159	Triflusulfuron
207	GOICDS_C DS2447	Atrazine	209	GOISCDS_ CDS3159	Atrazine
207	GOICDS_C DS2447	Pyroxasulfone	209	GOISCDS_ CDS3159	Pyroxasulfone
207	GOICDS_C DS2447	Bentazone	209	GOISCDS_ CDS3159	Bentazone
207	GOICDS_C DS2447	Cinidon-ethly	209	GOISCDS_ CDS3159	Cinidon-ethly
207	GOICDS_C DS2447	Cinmethylin	209	GOISCDS_ CDS3159	Cinmethylin
207	GOICDS_C DS2447	Dicamba	209	GOISCDS_ CDS3159	Dicamba
207	GOICDS_C DS2447	Diflufenzopyr	209	GOISCDS_ CDS3159	Diflufenzopyr
207	GOICDS_C DS2447	Quinclorac	209	GOISCDS_ CDS3159	Quinclorac
207	GOICDS_C DS2447	Quinmerac	209	GOISCDS_ CDS3159	Quinmerac
207	GOICDS_C DS2447	Mesotrione	209	GOISCDS_ CDS3159	Mesotrione
207	GOICDS_C DS2447	Saflufenacil	209	GOISCDS_ CDS3159	Saflufenacil
207	GOICDS_C DS2447	Topramezone;	209	GOISCDS_ CDS3159	Topramezone;
210	GOISCDS_	acephate	211	GOICDS_C DS0644_7	acephate

210	GOISCDS_	chlorpyrifos	211	GOICDS_C DS0644_7	chlorpyrifos
210	GOISCDS_	dimethoate	211	GOICDS_C DS0644_7	dimethoate
210	GOISCDS_	methamidophos	211	GOICDS_C DS0644_7	methamidophos
210	GOISCDS_	terbufos	211	GOICDS_C DS0644_7	terbufos
210	GOISCDS_	aldicarb	211	GOICDS_C DS0644_7	aldicarb
210	GOISCDS_	carbofuran	211	GOICDS_C DS0644_7	carbofuran
210	GOISCDS_	bifenthrin	211	GOICDS_C DS0644_7	bifenthrin
210	GOISCDS_	cypermethrin	211	GOICDS_C DS0644_7	cypermethrin
210	GOISCDS_	alpha-cypermethrin	211	GOICDS_C DS0644_7	alpha-cypermethrin
210	GOISCDS_	deltamethrin	211	GOICDS_C DS0644_7	deltamethrin
210	GOISCDS_	lambda-cyhalothrin	211	GOICDS_C DS0644_7	lambda-cyhalothrin
210	GOISCDS_	tefluthrin	211	GOICDS_C DS0644_7	tefluthrin
210	GOISCDS_	flufenoxuron	211	GOICDS_C DS0644_7	flufenoxuron
210	GOISCDS_	teflubenzuron	211	GOICDS_C DS0644_7	teflubenzuron
210	GOISCDS_	spirotetramat;	211	GOICDS_C DS0644_7	spirotetramat;
210	GOISCDS_	clothianidin	211	GOICDS_C DS0644_7	clothianidin
210	GOISCDS_	imidacloprid	211	GOICDS_C DS0644_7	imidacloprid
210	GOISCDS_	thiamethoxam	211	GOICDS_C DS0644_7	thiamethoxam
210	GOISCDS_	endosulfan	211	GOICDS_C DS0644_7	endosulfan
210	GOISCDS_	fipronil	211	GOICDS_C DS0644_7	fipronil
210	GOISCDS_	abamectin	211	GOICDS_C DS0644_7	abamectin
210	GOISCDS_	spinosad	211	GOICDS_C DS0644_7	spinosad
210	GOISCDS_	spinetoram	211	GOICDS_C	spinetoram

				DS0644_7	
210	GOISCDS_	hydramethylnon;	211	GOICDS_C DS0644_7	hydramethylnon;
210	GOISCDS_	chlorfenapyr;	211	GOICDS_C DS0644_7	chlorfenapyr;
210	GOISCDS_	indoxacarb	211	GOICDS_C DS0644_7	indoxacarb
210	GOISCDS_	metaflumizone	211	GOICDS_C DS0644_7	metaflumizone
210	GOISCDS_	flubendiamide	211	GOICDS_C DS0644_7	flubendiamide
210	GOISCDS_	chlorantraniliprole	211	GOICDS_C DS0644_7	chlorantraniliprole
210	GOISCDS_	cyazypyr(HGW86)	211	GOICDS_C DS0644_7	cyazypyr(HGW86)
210	GOISCDS_	Azoxystrobin	211	GOICDS_C DS0644_7	Azoxystrobin
210	GOISCDS_	Dimoxystrobin	211	GOICDS_C DS0644_7	Dimoxystrobin
210	GOISCDS_	Kresoxim-methyl	211	GOICDS_C DS0644_7	Kresoxim-methyl
210	GOISCDS_	Orysastrobin	211	GOICDS_C DS0644_7	Orysastrobin
210	GOISCDS_	Pyraclostrobin	211	GOICDS_C DS0644_7	Pyraclostrobin
210	GOISCDS_	Trifloxystrobin	211	GOICDS_C DS0644_7	Trifloxystrobin
210	GOISCDS_	Bixafen	211	GOICDS_C DS0644_7	Bixafen
210	GOISCDS_	Boscalid	211	GOICDS_C DS0644_7	Boscalid
210	GOISCDS_	Isopyrazam	211	GOICDS_C DS0644_7	Isopyrazam
210	GOISCDS_	Metalaxyl	211	GOICDS_C DS0644_7	Metalaxyl
210	GOISCDS_	Penthiopyrad	211	GOICDS_C DS0644_7	Penthiopyrad
210	GOISCDS_	3-Difluoromethyl-1-methyl-1H-pyrazole-4-carboxylic acid(2',4',5'-trifluorobiphenyl-2-yl)-amide	211	GOICDS_C DS0644_7	3-Difluoromethyl-1-methyl-1H-pyrazole-4-carboxylic acid(2',4',5'-trifluorobiphenyl-2-yl)-amide
210	GOISCDS_	Dimethomorph	211	GOICDS_C DS0644_7	Dimethomorph
210	GOISCDS_	Difenoconazole	211	GOICDS_C DS0644_7	Difenoconazole

210	GOISCDS_	Epoxiconazole	211	GOICDS_C DS0644_7	Epoxiconazole
210	GOISCDS_	Fluquinconazole	211	GOICDS_C DS0644_7	Fluquinconazole
210	GOISCDS_	Metconazol	211	GOICDS_C DS0644_7	Metconazol
210	GOISCDS_	Propiconazole	211	GOICDS_C DS0644_7	Propiconazole
210	GOISCDS_	Prothioconazole	211	GOICDS_C DS0644_7	Prothioconazole
210	GOISCDS_	Tebuconazole	211	GOICDS_C DS0644_7	Tebuconazole
210	GOISCDS_	Triticonazole	211	GOICDS_C DS0644_7	Triticonazole
210	GOISCDS_	Prochloraz	211	GOICDS_C DS0644_7	Prochloraz
210	GOISCDS_	Carbendazim	211	GOICDS_C DS0644_7	Carbendazim
210	GOISCDS_	Cyprodinil	211	GOICDS_C DS0644_7	Cyprodinil
210	GOISCDS_	Pyrimethanil	211	GOICDS_C DS0644_7	Pyrimethanil
210	GOISCDS_	Fenpropimorph	211	GOICDS_C DS0644_7	Fenpropimorph
210	GOISCDS_	Tridemorph	211	GOICDS_C DS0644_7	Tridemorph
210	GOISCDS_	Iprodione	211	GOICDS_C DS0644_7	Iprodione
210	GOISCDS_	5-ethyl-6-octyl-[1,2,4] triazolo[1,5-a]pyri- midine-7-ylamine	211	GOICDS_C DS0644_7	5-ethyl-6-octyl-[1,2,4] triazolo[1,5-a]pyri- midine-7-ylamine
210	GOISCDS_	Mancozeb	211	GOICDS_C DS0644_7	Mancozeb
210	GOISCDS_	Maneb	211	GOICDS_C DS0644_7	Maneb
210	GOISCDS_	Metiram	211	GOICDS_C DS0644_7	Metiram
210	GOISCDS_	Dithianon	211	GOICDS_C DS0644_7	Dithianon
210	GOISCDS_	Chlorothalonil	211	GOICDS_C DS0644_7	Chlorothalonil
210	GOISCDS_	ThiophanateMethyl	211	GOICDS_C DS0644_7	ThiophanateMethyl
210	GOISCDS_	Cymoxanil	211	GOICDS_C DS0644_7	Cymoxanil

210	GOISCDS_	Metrafenone	211	GOICDS_C DS0644_7	Metrafenone
210	GOISCDS_	Acetochlor	211	GOICDS_C DS0644_7	Acetochlor
210	GOISCDS_	Dimethenamid	211	GOICDS_C DS0644_7	Dimethenamid
210	GOISCDS_	Metolachlor	211	GOICDS_C DS0644_7	Metolachlor
210	GOISCDS_	Metazachlor	211	GOICDS_C DS0644_7	Metazachlor
210	GOISCDS_	Glyphosate	211	GOICDS_C DS0644_7	Glyphosate
210	GOISCDS_	Glufosinate	211	GOICDS_C DS0644_7	Glufosinate
210	GOISCDS_	Sulfosate	211	GOICDS_C DS0644_7	Sulfosate
210	GOISCDS_	Fenoxaprop	211	GOICDS_C DS0644_7	Fenoxaprop
210	GOISCDS_	Paraquat	211	GOICDS_C DS0644_7	Paraquat
210	GOISCDS_	Cycloxydim	211	GOICDS_C DS0644_7	Cycloxydim
210	GOISCDS_	Profoxydim	211	GOICDS_C DS0644_7	Profoxydim
210	GOISCDS_	Sethoxydim	211	GOICDS_C DS0644_7	Sethoxydim
210	GOISCDS_	Tepraloxydim	211	GOICDS_C DS0644_7	Tepraloxydim
210	GOISCDS_	Pendimethalin	211	GOICDS_C DS0644_7	Pendimethalin
210	GOISCDS_	Acifluorfen	211	GOICDS_C DS0644_7	Acifluorfen
210	GOISCDS_	Imazamethabenz	211	GOICDS_C DS0644_7	Imazamethabenz
210	GOISCDS_	Imazamox	211	GOICDS_C DS0644_7	Imazamox
210	GOISCDS_	Imazapic	211	GOICDS_C DS0644_7	Imazapic
210	GOISCDS_	Imazapyr	211	GOICDS_C DS0644_7	Imazapyr
210	GOISCDS_	Imazaquin	211	GOICDS_C DS0644_7	Imazaquin
210	GOISCDS_	Imazethapyr	211	GOICDS_C DS0644_7	Imazethapyr
210	GOISCDS_	2,4-D	211	GOICDS_C	2,4-D

				DS0644_7	
210	GOISCDS_	Chloridazon	211	GOICDS_C DS0644_7	Chloridazon
210	GOISCDS_	Picloram	211	GOICDS_C DS0644_7	Picloram
210	GOISCDS_	Picolinafen	211	GOICDS_C DS0644_7	Picolinafen
210	GOISCDS_	Cyclosulfamuron	211	GOICDS_C DS0644_7	Cyclosulfamuron
210	GOISCDS_	Triflusulfuron	211	GOICDS_C DS0644_7	Triflusulfuron
210	GOISCDS_	Atrazine	211	GOICDS_C DS0644_7	Atrazine
210	GOISCDS_	Pyroxasulfone	211	GOICDS_C DS0644_7	Pyroxasulfone
210	GOISCDS_	Bentazone	211	GOICDS_C DS0644_7	Bentazone
210	GOISCDS_	Cinidon-ethly	211	GOICDS_C DS0644_7	Cinidon-ethly
210	GOISCDS_	Cinmethylin	211	GOICDS_C DS0644_7	Cinmethylin
210	GOISCDS_	Dicamba	211	GOICDS_C DS0644_7	Dicamba
210	GOISCDS_	Diflufenzopyr	211	GOICDS_C DS0644_7	Diflufenzopyr
210	GOISCDS_	Quinclorac	211	GOICDS_C DS0644_7	Quinclorac
210	GOISCDS_	Quinmerac	211	GOICDS_C DS0644_7	Quinmerac
210	GOISCDS_	Mesotrione	211	GOICDS_C DS0644_7	Mesotrione
210	GOISCDS_	Saflufenacil	211	GOICDS_C DS0644_7	Saflufenacil
210	GOISCDS_	Topramezone;	211	GOICDS_C DS0644_7	Topramezone;
213		acephate	213		methamidophos
213		chlorpyrifos	213		terbufos
213		dimethoate	213		aldicarb
213		carbofuran	213		alpha-cypermethrin
213		bifenthrin	213		deltamethrin
213		cypermethrin	213		lambda-cyhalothrin
213		tefluthrin	213		spirotetramat;
213		flufenoxuron	213		clothianidin
213		teflubenzuron	213		imidacloprid

213		thiamethoxam	213		abamectin
213		endosulfan	213		spinosad
213		fipronil	213		spinetoram
213		hydramethylnon;	213		metaflumizone
213		chlorfenapyr;	213		flubendiamide
213		indoxacarb	213		chlorantraniliprole
213		cyazypyr(HGW86)	213		Kresoxim-methyl
213		Azoxystrobin	213		Orysastrobin
213		Dimoxystrobin	213		Pyraclostrobin
213		Trifloxystrobin	213		Isopyrazam
213		Bixafen	213		Metalaxyl
213		Boscalid	213		Penthiopyrad
213		3-Difluoromethyl-1-methyl-1H-pyrazole-4-carboxylic acid(2',4',5'-trifluoro-biphenyl-2-yl)-amide	213		Epoxiconazole
213		Dimethomorph	213		Fluquinconazole
213		Difenoconazole	213		Metconazol
213		Propiconazole	213		Triticonazole
213		Prothioconazole	213		Prochloraz
213		Tebuconazole	213		Carbendazim
213		Cyprodinil	213		Tridemorph
213		Pyrimethanil	213		Iprodione
213		Fenpropimorph	213		5-ethyl-6-octyl-[1,2,4] triazolo[1,5-a]pyrimidine-7-ylamine
213		Mancozeb	213		Dithianon
213		Maneb	213		Chlorothalonil
213		Metiram	213		ThiophanateMethyl
213		Cymoxanil	213		Dimethenamid
213		Metrafenone	213		Metolachlor
213		Acetochlor	213		Metazachlor
213		Glyphosate	213		Paraquat
213		Glufosinate	213		Cycloxydim
213		Sulfosate	213		Profoxydim
213		Fenoxaprop	213		Sethoxydim
213		Tepraloxydim	213		Imazamethabenz
213		Pendimethalin	213		Imazamox
213		Acifluorfen	213		Imazapic

213		Imazapyr	213		2,4-D
213		Imazaquin	213		Chloridazon
213		Imazethapyr	213		Picloram
213		Picolinafen	213		Atrazine
213		Cyclosulfamuron	213		Pyroxasulfone
213		Triflusulfuron	213		Bentazone
213		Cinidon-ethly	213		Diflufenzopyr
213		Cinmethylin	213		Quinclorac
213		Dicamba	213		Quinmerac
213		Mesotrione	213		Topramezone;
213		Saflufenacil			

Claims

1. A method for increasing plant health and/or controlling pests in plants with at least one transgenic modification related to yield increase as compared to a corresponding wild-type plant comprising treating the location where the plant with at least one transgenic modification is growing or is expected to grow and/or the transgenic plant with at least one transgenic modification or propagation material of the plant with at least one transgenic modification with an effective amount of a chemical composition comprising at least one active ingredient.
2. The method of claim 1 whereby at least one transgenic modification of said plant does not confer resistance to the active ingredient which is employed.
3. The method of claim 1 whereby the method is a method for increasing plant health.
4. The method of claim 1 whereby the method is a method for controlling pests.
5. The method of any one of the preceding claims wherein the active ingredient is selected from the group consisting of insecticides, fungicides or herbicides.
6. The method of any one of the preceding claims wherein the active ingredient is a pesticide selected from the group consisting of insecticides and fungicides.
7. The method of any one of the preceding claims wherein the active ingredient is an insecticide selected from the group consisting of acephate, chlorpyrifos, diazinon, dichlorvos, dimethoate, fenitrothion, methamidophos, methidathion, methyl-parathion, monocrotophos, phorate, profenofos, terbufos, aldicarb, carbaryl, carbofuran, carbosulfan, methomyl, thiodicarb, bifenthrin, cyfluthrin, cypermethrin, alpha-cypermethrin, zeta-cypermethrin, deltamethrin, esfenvalerate, lambda-cyhalothrin, permethrin, tefluthrin, diflubenzuron, flufenoxuron, lufenuron, teflubenzuron, spirotetramat; clothianidin, dinotefuran, imidacloprid, thiamethoxam, acetamiprid, thiacloprid; endosulfan, fipronil, abamectin, emamectin, spinosad, spinetoram,

hydramethylnon; chlorfenapyr; fenbutatin oxide, indoxacarb, metaflumizone, flonicamid, flubendiamide, chlorantraniliprole, cyazypyr (HGW86), cyflumetofen.

8. The method of any one of the preceding claims wherein the active ingredient is a fungicide selected from the group consisting of azoxystrobin, dimoxystrobin, kresoxim-methyl, orysastrobin, pyraclostrobin, trifloxystrobin, bixafen, boscalid, isopyrazam, metalaxyl, penthiopyrad, 3-difluoromethyl-1-methyl-1H-pyrazole-4-carboxylic acid (2',4',5'-trifluorobiphenyl-2-yl)-amide, N-(2-bicyclopropyl-2-yl-phenyl)-3-difluoromethyl-1-methyl-1H-pyrazole-4-carboxylic acid amide, dimethomorph, fluopicolide, difenoconazole, epoxiconazole, fluquinconazole, flusilazole, flutriafol, metconazol, myclobutanil, propiconazole, prothioconazole, tebuconazole, tetraconazole, triticonazole, prochloraz, carbendazim, fluazinam, cyprodinil, pyrimethanil, fludioxonil, dodemorph, fenpropimorph, tridemorph, fenpropidin, iprodione, vinclozolin, famoxadone, probenazole, captan, folpet, 5-ethyl-6-octyl-[1,2,4]triazolo[1,5-a]pyrimidine-7-ylamine, mancozeb, maneb, metiram, thiram, dithianon, fosetyl, fosetyl-aluminium, chlorothalonil, thiophanate methyl, cymoxanil, metrafenone, spiroxamine, bixafen, N-(3',4',5'-trifluorobiphenyl-2-yl)-3-difluoromethyl-1-methyl-1H-pyrazole-4-carboxamide, N-[2-(4'-trifluoromethylthio)-biphenyl]-3-difluoromethyl-1-methyl-1H-pyrazole-4-carboxamide, N-[2-(1,3-dimethylbutyl)-phenyl]-1,3-dimethyl-5-fluoro-1H-pyrazole-4-carboxamide, N-(2-bicyclopropyl-2-yl-phenyl)-3-difluoromethyl-1-methyl-1H-pyrazole-4-carboxamide, N-(cis-2-bicyclopropyl-2-yl-phenyl)-3-difluoromethyl-1-methyl-1H-pyrazole-4-carboxamide, N-(trans-2-bicyclopropyl-2-yl-phenyl)-3-difluoromethyl-1-methyl-1H-pyrazole-4-carboxamide, N-[1,2,3,4-tetrahydro-9-(1-methylethyl)-1,4-methanonaphthalen-5-yl]-3-(difluoromethyl)-1-methyl-1H-pyrazole-4-carboxamide.

9. The method of any one of the preceding claims wherein the active ingredient is a herbicide selected from the group consisting of acetochlor, dimethenamid, metolachlor, metazachlor, glyphosate, glufosinate, sulfosate, clodinafop, fenoxaprop, fluazifop, haloxyfop, paraquat, phenmedipham, clethodim, cycloxydim, profoxydim, sethoxydim, tepraloxydim, pendimethalin, trifluralin, acifluorfen, bromoxynil, imazamethabenz, imazamox, imazapic, imazapyr, imazaquin, imazethapyr, 2,4-D, chloridazon, clopyralid, fluroxypyr, picloram, picolinafen, bensulfuron, chlorimuron ethyl, cyclosulfamuron, iodosulfuron, mesosulfuron, metsulfuron-methyl, nicosulfuron, rimsulfuron, triflusulfuron, atrazine, hexazinone, diuron, florasulam, pyroxasulfone, bentazone, cinidon-ethyl, cinmethylin, dicamba, diflufenzopyr, quinclorac, quinmerac, mesotrione, saflufenacil, topramezone.

10. The method of any one of the preceding claims, wherein the active ingredient (B) is a strobilurin selected from pyraclostrobin, kresoxim-methyl, dimoxystrobin, 2-(ortho-((2,5-dimethylphenyl-oxymethylene)phenyl)-3-methoxy-acrylic acid methyl ester, picoxystrobin, trifloxystrobin, enestroburin, orysastrobin, metominostrobin, azoxystrobin and fluoxastrobin.

11. The method of any one of the preceding claims, wherein the active ingredient (B) is selected from thiamethoxam, fipronil and imidacloprid and clothianidin

12. The method of any one of the preceding claims, wherein the chemical composition comprises at least one active ingredient (B) and a component (A) which is a glucan or a glucan derivative.

13. The method of any one of the preceding claims wherein at least one transgenic modification is related to yield increase as compared to a corresponding wild-type plant

14. The method of any one of the preceding claims wherein at least one transgenic modification related to yield increase as compared to a corresponding wild-type plant is a transgenic modification conferring one or more increased or generated activities selected from the group consisting of the polypeptides encoded by:

- a) a nucleic acid molecule encoding the polypeptide as depicted in any of the SEQ ID NO: 1 to 270 or the homologs as depicted in SEQ ID NO: 271 to 273;
- b) a nucleic acid molecule as depicted in table B, column 1 or 3;
- c) a nucleic acid molecule, which, as a result of the degeneracy of the genetic code, can be derived from a polypeptide sequence as depicted in table B, column 1 or 3 and/or in SEQ ID NO: 1 to 270;
- d) a nucleic acid molecule having at least 30 % identity with the nucleic acid molecule sequence of a polynucleotide comprising the nucleic acid molecule according to a) to c);
- e) a nucleic acid molecule encoding a polypeptide having at least 30 %

identity with the amino acid sequence of the polypeptide encoded by the nucleic acid molecule of (a) to (c) and having the activity represented by a nucleic acid molecule of (a) to (c) ;

- f) nucleic acid molecule which hybridizes with a nucleic acid molecule of (a) to (c) under stringent hybridization conditions;
- g) a nucleic acid molecule encoding a polypeptide which can be isolated with the aid of monoclonal or polyclonal antibodies made against a polypeptide encoded by one of the nucleic acid molecules of (a) to (e) and having the activity represented by the nucleic acid molecule comprising a polynucleotide of (a) to (c);
- h) a nucleic acid molecule encoding a polypeptide comprising the consensus sequence or one or more polypeptide motifs resulting from 2 or more of the polypeptides as depicted in table B, column 1 or 3 and/or in SEQ ID NO: 1 to 270 and/or a consensus sequence as depicted in SEQ ID NO: 274 to 277;
- i) a nucleic acid molecule encoding a polypeptide having the activity represented by a protein as depicted in table B, column 1 or 3 or 5 and/or SEQ ID NO: 1 to 270;
- j) nucleic acid molecule which comprises a polynucleotide, which is obtained by amplifying a cDNA library or a genomic library using the primers for the polynucleotides as depicted in table B, column 1 or 3 and/or SEQ ID NO: 1 to 270 which do not start at their 5'-end with the nucleotides ATA;

and

- k) a nucleic acid molecule which is obtainable by screening a suitable nucleic acid library under stringent hybridization conditions with a probe comprising a complementary sequence of a nucleic acid molecule of (a) or (b) or with a fragment thereof, having at least 15 nt, preferably 20 nt, 30 nt, 50 nt, 100 nt, 200 nt or 500 nt of a nucleic acid molecule complementary to a nucleic acid molecule sequence characterized in (a) to (e) and encoding a polypeptide having the activity represented by a protein comprising a polypeptide as depicted in table B, column 1 or 3 and/or SEQ ID NO: 1 to 270.

15. The method of any one of the preceding claims wherein at least one

transgenic modification related to yield increase as compared to a corresponding wild-type plant is a transgenic modification conferring one or more increased or generated activities selected from the group consisting of polypeptides as depicted in SEQ ID NO: 1, 2, 3, 4, 5, 6, 7, 8, 9, 10, 11, 12, 13, 14, 15, 16, 17, 18, 19, 20, 21, 22, 23, 24, 25, 26, 27, 28, 29, 30, 31, 32, 46, 53, 266.

16. The method of any one of the preceding claims wherein the propagation material is seed.
17. The method of any one of the preceding claims wherein the transgenic seed or transgenic plant contains one or more genes which lead to an increase in plant health.
18. The method of any one of the preceding claims wherein the transgenic seed or transgenic plant contains one or more genes which lead to an increase in stress resistance.
19. The method of any one of the preceding claims wherein the transgenic seed or transgenic plant contains one or more genes which lead to an increase in pest control.
20. The method of any one of the preceding claims wherein the transgenic seed or transgenic plant contains one or more genes which lead to an increase in yield.
21. The method of any one of the preceding claims, wherein the treatment(s) are carried out as foliar application.
22. The method of any one of the preceding claims, wherein the treatment(s) are carried out in furrow.
23. The method of any one of the preceding claims, wherein the application rate of the active compound is in the range from 0.0001 to 2000 g/ha.
24. The method of any one of the preceding claims, wherein the active compound is applied to seed.

25. The method of any one of the preceding claims, wherein the transgenic plant is a monocotyledonous plant.

26. The method of any one of the preceding claims, wherein the transgenic plant is a dicotyledonous plant.

27. The method of any one of the preceding claims, wherein the plant with the transgenic modification is selected from the group comprising maize, wheat, rye, oat, triticale, rice, barley, soybean, peanut, cotton, oilseed rape, canola/OSR, manihot, pepper, sunflower, flax, borage, sugar cane, safflower, linseed, primrose, rapeseed, turnip rape, tagetes, solanaceous plants, potato, tobacco, eggplant, tomato, lettuce, Vicia species, pea, alfalfa, coffee, cacao, tea, Salix species, oil palm, coconut, perennial grass, snip grass and forage crops.

28. The method of any one of the preceding claims, wherein the plant with the transgenic modification is selected from the group comprising maize, soybean, cotton, canola/OSR and snip grass.

Fig. 1

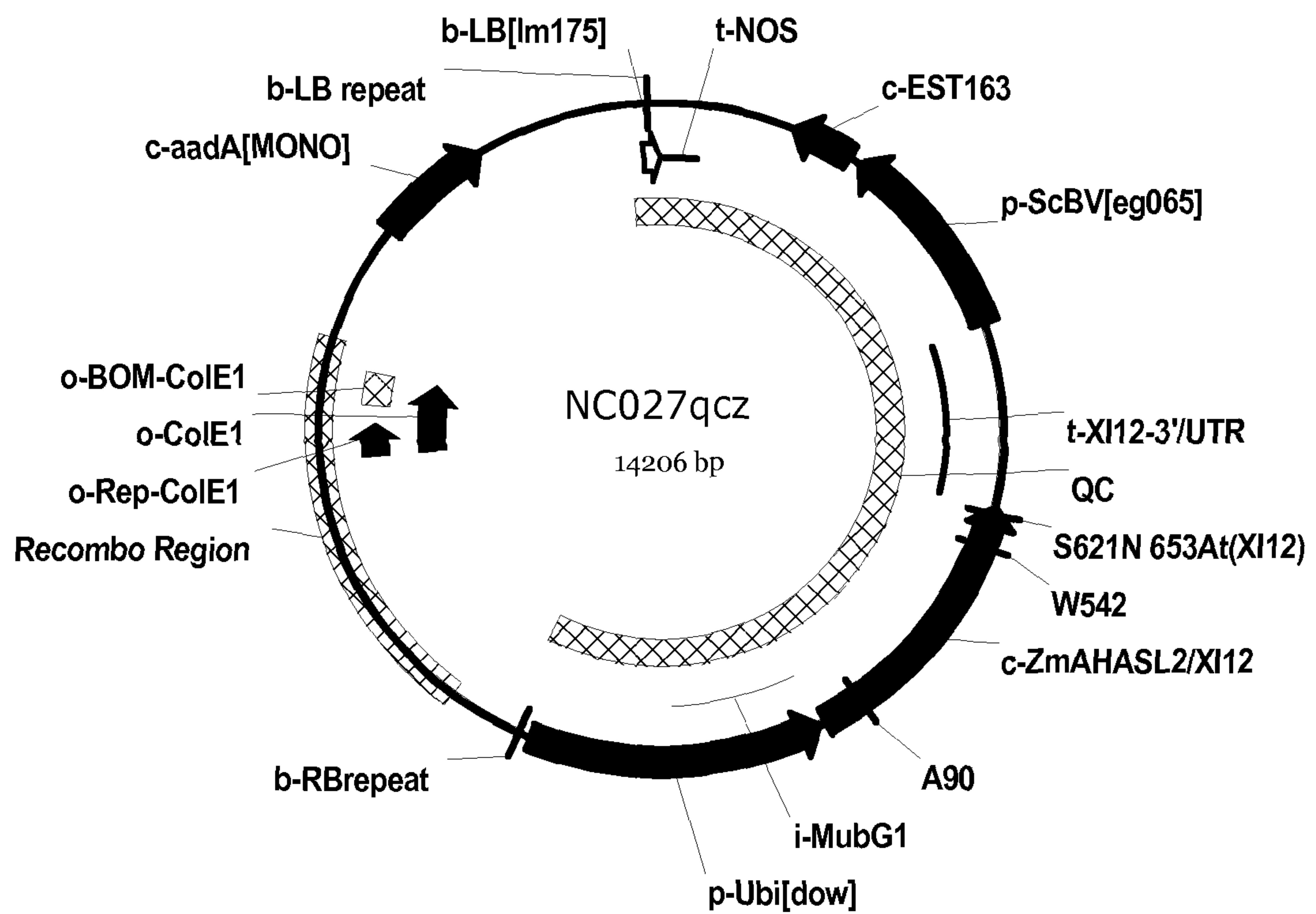


Fig. 1

