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(54) Title: MICROORGANISMS OF THE SPECIES BACTEROIDES XYLANISOLVENS

(57) Abstract: The present invention pertains to food products comprising microorganisms of the species *Bacteroides xylanisolvens*, in particular fermented food and probiotic food. These microorganisms are particularly characterized as having a very low pathogenicity and a high safety for human consumption. Furthermore, methods for producing said food products, in particular by fermentation, as well as suitable bacterial strains *Bacteroides xylanisolvens* are provided.



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INTERNATIONAL SEARCH REPORT

International application No.

PCT/EP2012/066359

Box No. I Nucleotide and/or amino acid sequence(s) (Continuation of item 1.c of the first sheet)

1. With regard to any nucleotide and/or amino acid sequence disclosed in the international application and necessary to the claimed invention, the international search was carried out on the basis of:
- a. (means)
- on paper
- in electronic form
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- in the international application as filed
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3. Additional comments:

INTERNATIONAL SEARCH REPORT

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A. CLASSIFICATION OF SUBJECT MATTER
INV. A23L1/30 A23L1/03 C12N1/20 C12R1/01 A23C9/12
ADD.
According to International Patent Classification (IPC) or to both national classification and IPC

B. FIELDS SEARCHED
Minimum documentation searched (classification system followed by classification symbols)
A23L C12N A61K C12R A23C
Documentation searched other than minimum documentation to the extent that such documents are included in the fields searched

Electronic data base consulted during the international search (name of data base and, where practicable, search terms used)
EPO-Internal, WPI Data, BIOSIS, EMBASE, FSTA

C. DOCUMENTS CONSIDERED TO BE RELEVANT		
Category*	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
X	US 2011/076356 A1 (ZIEMER CHERIE J [US] ET AL) 31 March 2011 (2011-03-31) paragraphs [0001], [0011] - [0014], [0024] - [0031]; figures; tables 1-2; sequences 5,7	1-6, 12-18
X	US 2010/158952 A1 (GOLETZ STEFFEN [DE]) 24 June 2010 (2010-06-24) paragraphs [0001], [0050] - [0065], [0203], [0367] - [0372]; claims	12-14
X	US 2011/129570 A1 (GOLETZ STEFFEN [DE]) 2 June 2011 (2011-06-02) paragraphs [0019] - [0020]; claims	12-14
Y		1-18
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Further documents are listed in the continuation of Box C. See patent family annex.

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Name and mailing address of the ISA/ European Patent Office, P.B. 5818 Patentlaan 2 NL - 2280 HV Rijswijk Tel. (+31-70) 340-2040, Fax: (+31-70) 340-3016	Authorized officer Baminger, Ursula
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International application No

PCT/EP2012/066359

C(Continuation). DOCUMENTS CONSIDERED TO BE RELEVANT		
Category*	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
X	<p>DATABASE WPI Week 200978 Thomson Scientific, London, GB; AN 2009-Q64299 XP002717870, & CN 101 560 488 A (UNIV CHINESE AGRICULTURAL) 21 October 2009 (2009-10-21) abstract</p> <p style="text-align: center;">-----</p>	12-14
X	<p>US 2004/115177 A1 (HARRIS DELBERT L [US] ET AL) 17 June 2004 (2004-06-17) paragraphs [0022] - [0023]</p> <p style="text-align: center;">-----</p>	12-14
X	<p>C. MIRANDE ET AL: "Dietary fibre degradation and fermentation by two xylanolytic bacteria Bacteroides xylanisolvens XB1A T and Roseburia intestinalis XB6B4 from the human intestine", JOURNAL OF APPLIED MICROBIOLOGY, 1 January 2010 (2010-01-01), XP055093127, ISSN: 1364-5072, DOI: 10.1111/j.1365-2672.2010.04671.x abstract Materials and Methods Section</p> <p style="text-align: center;">-----</p>	12-14
X	<p>CHASSARD ET AL.: "Bacteroides xylanisolvens sp. Nov., a xylan-degrading bacterium isolated from human faeces", INTERNATIONAL JOURNAL OF SYSTEMATIC AND EVOLUTIONARY MICROBIOLOGY, vol. 58, 2008, pages 1008-1013, XP002717871,</p>	12-14
Y	<p>the whole document</p> <p style="text-align: center;">-----</p>	1-18
X,P	<p>P. ULSEMER ET AL: "Safety and tolerance of Bacteroides xylanisolvens DSM 23964 in healthy adults", BENEFICIAL MICROBES, vol. 3, no. 2, 14 March 2012 (2012-03-14), pages 99-111, XP055092809, ISSN: 1876-2883, DOI: 10.3920/BM2011.0051 the whole document</p> <p style="text-align: center;">-----</p>	1-18
T	<p>N. L. ZITOMERSKY ET AL: "Longitudinal Analysis of the Prevalence, Maintenance, and IgA Response to Species of the Order Bacteroidales in the Human Gut", INFECTION AND IMMUNITY, vol. 79, no. 5, 14 March 2011 (2011-03-14) , pages 2012-2020, XP055092947, ISSN: 0019-9567, DOI: 10.1128/IAI.01348-10 the whole document</p> <p style="text-align: center;">-----</p>	
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INTERNATIONAL SEARCH REPORT

International application No

PCT/EP2012/066359

C(Continuation). DOCUMENTS CONSIDERED TO BE RELEVANT		
Category*	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
T	<p>J De Ley ET AL: "The quantitative measurement of DNA hybridization from renaturation rates", European journal of biochemistry / FEBS, 1 January 1970 (1970-01-01), pages 133-142, XP055093106, GERMANY, WEST DOI: 10.1111/j.1432-1033.1970.tb00830.x Retrieved from the Internet: URL:http://www.ncbi.nlm.nih.gov/pubmed/4984993 the whole document</p> <p style="text-align: center;">-----</p>	

INTERNATIONAL SEARCH REPORT

Information on patent family members

International application No PCT/EP2012/066359

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