

:

(54)

5 - [4 - [2 - (N - - N - (2 -))]] -2,4 -

5 - [4 - [2 - (N - - N - (2 -))]] -2,4 -

0,306,228

0,306,228

30

5 - [4 - [2 - (N -

가

- N - (2 -

))]] -2,4 - (" l"

WO94/05659

0,306,228

(

)

" l)

가 ("

가

가

()

5 - [4 - [2 - (N - - N - (2 -))]] -2,4 -

1

2

1

3

X -

(XRPD)

4

¹³ C NMR

175 185 , 180 185 , 181

180 186 , 182.5 T

(i) 1 ;

(ii) 2 ;

(iii) 1 3 X - (XRPD);

(iv) 4 ¹³C NMR ;

(v) 175 185 , 180 185 , 181

2가

(가)

(가

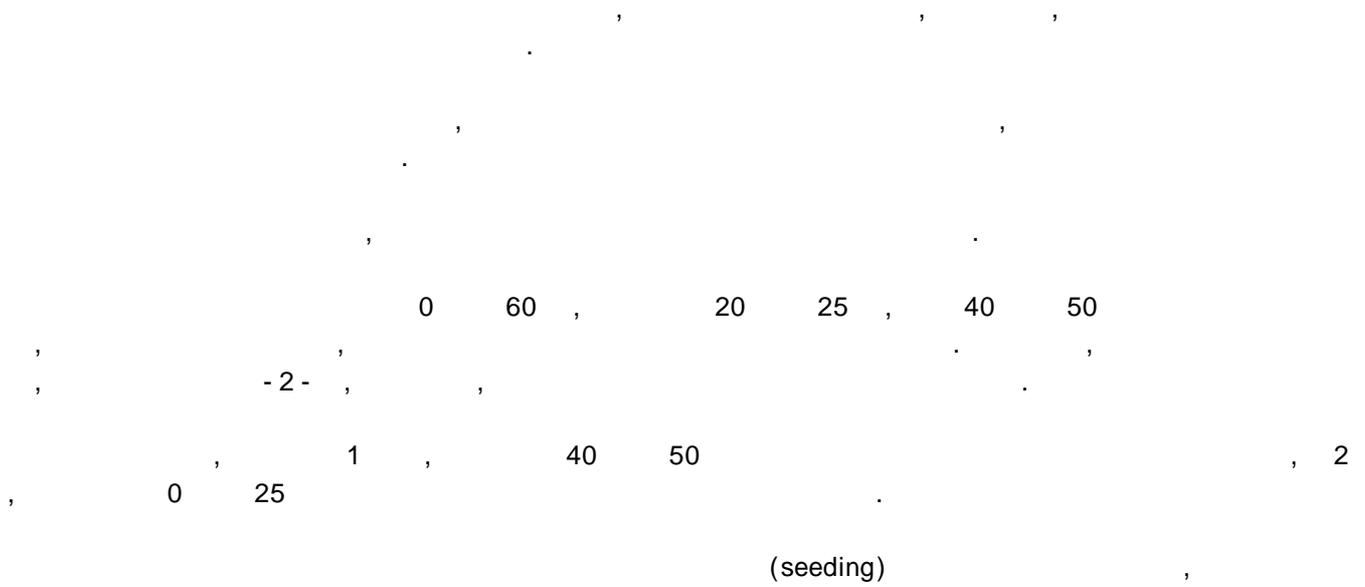
]] -2,4- (I) 5 - [4 - [2 - (N - - N - (2 -))

-2-

48% (w/w)

-2-

I 가



I
0,306,228 WO94/05659

0,306,228 WO94/05659

" T " (" Pharmaceutical Thermal Analysis, Techniques and Applications", Ford and Timmins, 1989; " The temperature corresponding to the intersection of the pre - transition baseline with the extrapolated leading edge of the transition")

(Hausner) " " 1.5 , 1.25

" "

II

가 , (an

orexia nervosa), , (anorexia bulimia)

가

()

|

()

가

가

()

p-

() 가 .

가 ()

() ,
0,306,228 , WO94/05659 WO98/55122

1:

5 - [4 - [2 - (N - - N - (2 -))]] -2,4 -

5 - [4 - [2 - (N - - N - (2 -))]] -2,4 - (1.0 g) -2 - (50 m
l) , 10 가 ,
(48% (w/w) , 0.31 ml) 가 , 10 , 21
(2 -))]] -2 - (10 ml) 5 - [4 - [2 - (N - - N -
(0.41 g)

2:

5 - [4 - [2 - (N - - N - (2 -))]] -2,4 -

5 - [4 - [2 - (N - - N - (2 -))]] -2,4 - (3.0 g) (100 ml)
, 15 가 ,
w/w) , 0.95 ml) 가 , 15 , 21 (48% (
(N - - N - (2 -)))]] (10 ml) 3 . 120
(3.7 g) 5 - [4 - [2 -

1H - NMR (d6 - DMSO): (0.5% (wt/wt)) 5 - [4 - [2 - (N - - N - (2 -))]]
-2,4 -

3:

5 - [4 - [2 - (N - - N - (2 -))]] -2,4 -

5 - [4 - [2 - (N - - N - (2 -))]] -2,4 - (15.0 g) (230 ml)
, 15 가 , (48
% (w/w) , 4.75 ml) 가 , 45 , 1 , 21 .
(100 ml) 5 - [4 - [2 - (N - - N - (2
-))]] -2,4 - (17.7 g) .

(1) 3

가 1 1,000 ml 100 mg 가
HPLC 가 : 6 mg/ml

1.0 g a) 40 / (RH) 75%, , 1 , b) 50 , , 1
HPLC

a) 40 /75% RH: (HPLC 98%)

b) 50 : (HPLC 98%)

(" Pharmaceuticals - The Science of Dosage Form Design" , editor M. Aulton, 1988, published by
Churchill Livingstone) (tapped) ()
) : 1.3

T

(Perkin - Elmer) DSC7 T . T
: 182.5

(hot stage) . Mpt: 181

(2) 2

2 cm⁻¹ (Nicolet) 710 FT - IR
 (1). 1 cm⁻¹ . 2923, 2854, 2749, 1745, 1698, 1643, 1
 610, 1544, 1515, 1459, 1419, 1378, 1327, 1313, 1287, 1256, 1240, 1228, 1203, 1185, 1151, 1071, 1054,
 1032, 1014, 985, 906, 803, 771, 738, 712 524 cm⁻¹ .

ATR IR . 2929, 2859, 2749, 1745, 169
 4, 1641, 1608, 1543, 1514, 1445, 1419, 1382, 1358, 1326, 1311, 1287, 1255, 1240, 1202, 1184, 1148, 1
 070, 1053, 1031, 1014, 985, 906, 862, 844, 802, 768, 737, 710 657 cm⁻¹ . 400 mW
 Nd:V04 (1064 nm) 4 cm⁻¹ (Nicolet) 960 E.S.P. FT -

NMR (2) . 3067, 2997, 2926, 2884,
 2860, 1747, 1611, 1588, 1545, 1445, 1382, 1360, 1315, 1287, 1240, 1213, 1185, 1070, 1016, 986, 917,
 826, 769, 740, 712, 659, 636, 620, 605, 506, 470, 405, 332, 303, 134 99 cm⁻¹ .

XRPD (3) : : Cu, : 40 k
 V, : 40 mA, : 2.0 ° 2 , : 35.0 ° 2 , : 0.02 ° 2 , : 2.5 .
 XRPD 1 .

각	강도
$2-\theta^{\circ}$	%
10.0	2.9
11.7	2.7
12.4	0.8
13.2	8.9
13.4	9.6
13.8	1.1
14.4	1.8
14.8	5.6
15.9	7.4
16.3	23.5
17.1	17.2
17.6	15.5
18.1	21.1
19.4	15.1
20.3	6.8
20.7	2.4
21.3	7.3
22.1	36.3
22.5	20.8
22.8	3
23.4	100
23.7	18
24.0	19.7
24.5	18.1
24.9	25.2
25.7	10.6
26.3	12
26.8	11.8
27.0	15.8
27.3	6.6
27.8	15.4
28.2	5
29.2	12.4
29.4	6.8
29.9	5.9
30.4	11.5
30.7	21.9
31.1	2.9
31.8	7.2
32.2	8.3
32.3	8.8
32.5	11.9
33.0	7.3
33.9	7
34.3	9
34.7	5.5

(57)

1.

5 - [4 - [2 - (N - N - (2 -))]] -2,4-

2.

1 ,

(i) 1 ;

(ii) 2 ;

(iii) 1 3 X - (XRPD);

(iv) 4 ¹³C NMR ;

(v) 175 185 , 180 185 , 181

2가

3.

1 2 ,

4.

1 3 ,

5.

1 3 , 가

6.

1 3 ,

7.

5 - [4 - [2 - (N - N - (2 -))]] -2,4-

, , 5 - [4 - [2 - (N - N - (2 -))]] -2,4-

8.

5 - [4 - [2 - (N - N - (2 -))]] -2,4-

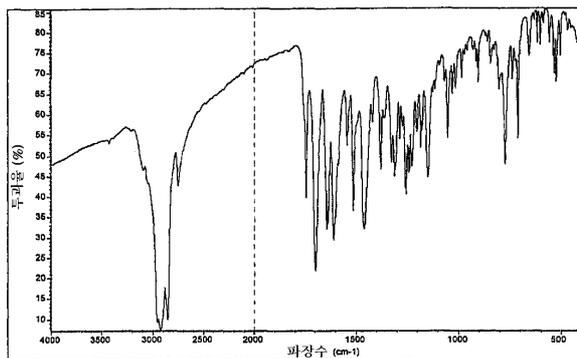
9.

5 - [4 - [2 - (N - - N - (2 -))]] - 2,4 -

10.

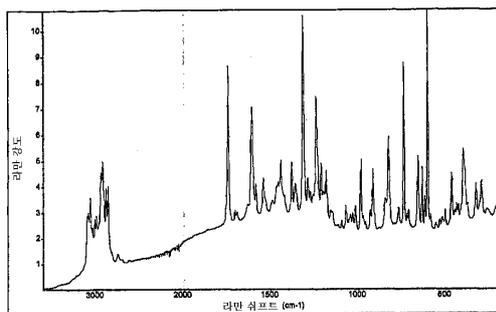
5 - [4 - [2 - (N - - N - (2 -))]] - 2,4 -
 ()

1
 하이드로브로마이드의 적외선 스펙트럼



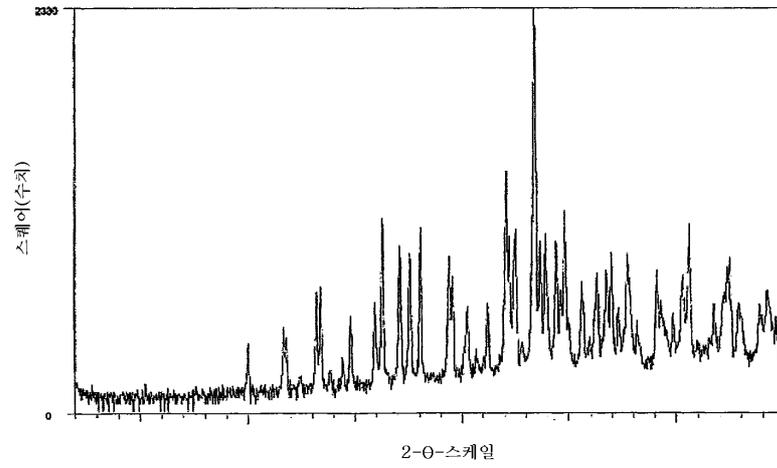
2

하이드로브로마이드의 라만 스펙트럼



3

하이드로브로마이드의 X-선 분말 회절



4

하이드로브로마이드의 고상 NMR 스펙트럼

