

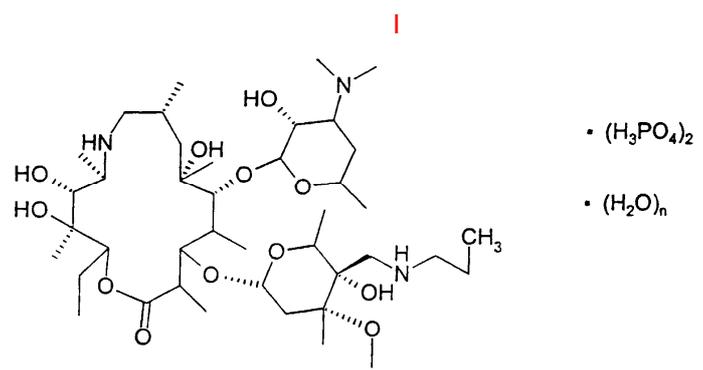


(54) 4 " - -9- -9 a - -9 a -

(2R,3S,4R,5R,8R,10R,11R,12S,13S,14R)-13-[[2,6-  
 -3-C- -3-O- -4-C-[( ) ]- -L- - ]]-2- -3,4,10-  
 -3,5,8,10,12,14- -11-[[3,4,6- -3-( )- -D- - ]]-  
 1- -6- -15- ( , ) 가 .  
 , 가

(2R,3S,4R,5R,8R,10R,11R,12S,13S,14R)-13-[[2,6-  
 -3-C- -3-O- -4-C-[( ) ]- -L- - ]]-2- -3,4,10-  
 -3,5,8,10,12,14- -11-[[3,4,6- -3-( )- -D- - ]]-  
 1- -6- -15- ( , ) 가 .  
 , 가

4,474,768 4,517,359 A  
 < > I (2R,3S,4R,5R,8R,10R,11R,12S,13S,14R)-13-[[2,6- -3-C- -3-  
 -O- -4-C-[( ) ]- -L- - ]]-2- -3,4,10- -3,5,8,10,12  
 ,14- -11-[[3,4,6- -3-( )- -D- - ]]-1- -6-  
 -15- ( , ) 2 .

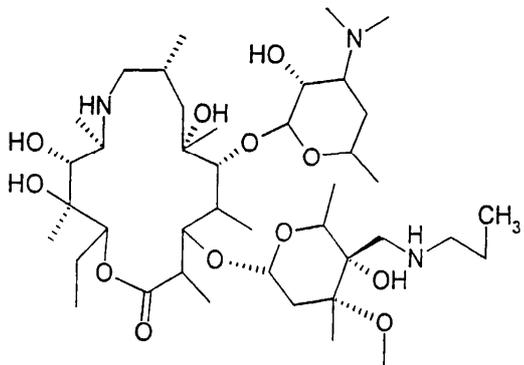


(lath)

	1	2	3	4	5	6	7	8	9	10
d	16.2	12.4	10.8	9.0	6.9	6.5	6.2	5.4	5.1	4.9

48% 87% (RH) 13% 90% RH  
 4 170 5 75 3 120  
 200 8 3 70  
 45 (pseudomorph)  
 280mg/ml 가  
 2 5 가  
 10/1( / ) 가  
 가 pH 8.5 10 가  
 가 가  
 가

(2R,3S,4R,5R,8R,10R,11R,12S,13S,14R)-13-[[2,6-  
 -O- -4-C-(( ) ]- -L- - ] ]-2- -3,4,10- -3-C- -3  
 ,14- -11-[[3,4,6- -3-( )- -D- - ] ]-1- -3,5,8,10,12  
 -15- 2 -6-

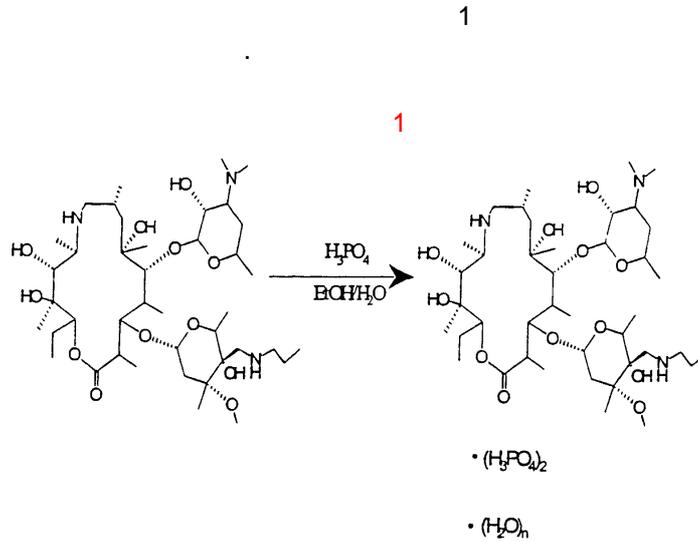


- (H<sub>3</sub>PO<sub>4</sub>)<sub>2</sub>
- (H<sub>2</sub>O)<sub>n</sub>

n 0 8

1	2	3	4	5	6	7	8	9	10
---	---	---	---	---	---	---	---	---	----

d	16.2	12.4	10.8	9.0	6.9	6.5	6.2	5.4	5.1	4.9
---	------	------	------	-----	-----	-----	-----	-----	-----	-----



, n 0 8 .

119

(volume thickness index; VTI)

85% RH

15%

20

25

90% RH

10

%  
48%

. 90% RH

(TGA)

. 87% RH[

(Karl Fisher; KF)

13%

] 4

, 4

170

5

. 75

3

200

8

, 120

8

가

87% RH

13%

, 60% RH

8%

, 40% RH

5%

(

).

70

45

87% RH

8

1

(2R,3S,4R,5R,8R,10R,11R,12S,13S,14R)-13-[[2,6-

-3-C- -3-O-

-4-C-[( ) ]

-L- - ] ]-2- -3,4,10-

-3,5,8,10,12,14-

-11-[[3,4,6-

-3-( )- -D- ] ]-1-

-6-

-15- (7.5g, 97%, 9.0m

mol) (190ml)

15ml (100 ml

H<sub>3</sub>PO<sub>4</sub> 7.15g, 9.3mmol, 1.03 )

가

6

(Buchner)

1 , (10ml) 가

2

KF

5.5%

	%	%
--	---	---

C	46.44	48.15
H	8.69	9.22
N	3.96	4.11
P	5.84	5.83

HPLC 가 5.5% 가 76.4%  
 76.9%  
 , 1- ( ) (가 ) , (hood)  
 2 (seed)  
2  
8  
 (10g, 98.8%, 12.3mmol) (180ml)  
 [18ml, 11.2mmol, 0.9 (100ml 7.15g H<sub>3</sub>PO<sub>4</sub>)] 3 가 ,  
 (10ml) 가 ,  
 10/1( / ) - 3 , -  
 2.09g 가 500mg  
 2ml 10:1( / ) - (가 )  
 1- , 10:1( / ) - , 370mg

	1	2	3	4	5	6	7	8	9	10
d	16.2	12.4	10.8	9.0	6.9	6.5	6.2	5.4	5.1	4.9

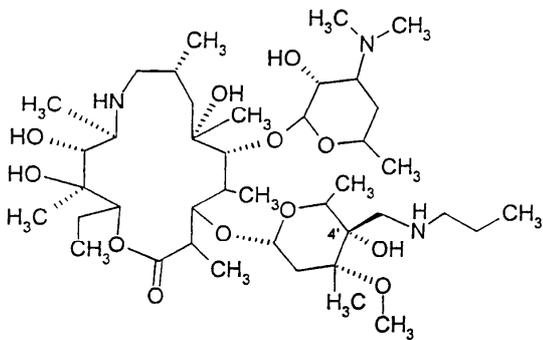
/ ) 가 가 8 , 4 5% ( )  
3  
8  
 1.18g 가 8 18.5ml 1.05ml  
 15 가 8  
4  
 (2R,3S,4R,5R,8R,10R,11R,12S,13S,14R)-13-[[2,6- -3-C- -3-O- -4-C-[( ) ]  
 - -L- - ] ]-2- -3,4,10- -3,5,8,10,12,14- -11-[[3,4,6-  
 -3-( )- -D- ] ]-1- -6- -15-  
 (225g) (1200ml) (500ml) pH 가  
 pH 5.9 8.6 (1  
 70g)  
5  
 가 (170g) (700ml) (115g)  
 가 가 가  
 가  
 , , , , , , , , (slave), , , ,

가 , 가  
 5.0 70 %  
 가  
 pH8 ).

(57)

1.

(smectic)  
 (2R,3S,4R,5R,8R,10R,11R,12S,13S,14R)-13-[[[2,6-  
 -3-C- -3-O- -4-C-  
 ]- -L- - ] -2- -3,4,10-  
 -3,5,8,10,12,14- -1  
 1-[[[3,4,6- -3-( )- -D- - ] -1- -6- -15-  
 < |>



- (H<sub>3</sub>PO<sub>4</sub>)<sub>2</sub>
- (H<sub>2</sub>O)<sub>n</sub>

, n 0 8 .

	1	2	3	4	5	6	7	8	9	10
d	16.2	12.4	10.8	9.0	6.9	6.5	6.2	5.4	5.1	4.9

2.

1 , (lath) 가 .

3.

2 , 87% 15 %가 ,

4.

2 , 5 6% 가 .

5.

1 , 48% C, 9% H, 4% N, 6% P 5.5% H<sub>2</sub>O 가 .

6.

1 , 가 .

7.

6 , .

8.

1 , 87% 13%

9.

8 , 90% 48%

- 9 10. , 90% .
- 1 11. , 75 3 가 , 120 4 가 , 170
- 5 가 , 200 3 가
- 1 12. , 가 8 .
- 1 13. , 70 45 ,
- 1 14. , 가 280mg/ml .
- 15. , , 2
- 5 가 , , 1 , .
- 10/1( / ) -
- 16. , pH 8 10 가 ,
- 17. , 15 ,
- 17. 1 가
- 18. ,
- 1 18. 가
- 19. ,
- 18