

(19)  
(12)(KR)  
(B1)(51) 。 Int. Cl.<sup>6</sup>  
A01N 5/18(45)  
(11)  
(24)2004 12 17  
10-0348715  
2002 07 31(21) 10-1994-0006351  
(22) 1994 03 29(65)  
(43)10-1994-0020907  
1994 10 17

(30) 08/040,069 1993 03 30 (US)

(73) - , . 401  
54956

(72) 54937 208

54956 725

(74)

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(54)

pH 3.5 7

( )

,

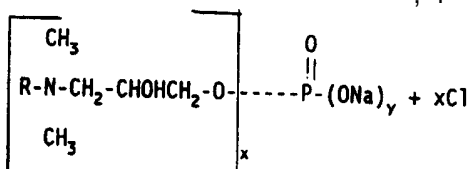
,

.

(soothing feel)

가

1 (mold) , pH가 3.5 7, 4 6 ,  
(bonded carded webs) (airlaid sheets) (meltblown)  
Same)' 4,100,324 [ (Anderson) 1978 7 11 (Nonwoven Fabric and Method of Producing  
(coform) (softness)  
70 80 g/m<sup>2</sup> 35 100 g/m<sup>2</sup> ,  
300 500 % ,  
350 450 % , 4



, R , x + y = 3 가 6 30, 16 26 , x,y  
( 18) ( 26) ,  
가 30 가 (Mona Indu  
stries, Inc., Paterson, New Jersey) PTC(Phospholipid PTC)'  
4,209,449 [ 4 (Pho  
sphate Quaternary Compounds)' (Mayhew) 1980 6 24 ] 4  
,503,002 ( 1985 3 5 )  
1 % , 3 %  
가

(antifungal) 가 1 %  
pH , pH , pH  
3.5 7, 0.07 4 0.3 6 pH  
0.2 % 0.07 % , 0.1 가  
, 0.2 % 가 ,  
0.1 0.3 % ,  
0.2 % ,  
0.2 1 %  
(E. coli; ATCC #25  
922) (S. aureus; ATCC #6538), 4 D<sub>10</sub> (1 (log)  
) (P. aeruginosa; ATCC #15442), (C. albicans; ATCC #10231)( )  
(A. niger; ATCC #16404)( ) 24 D<sub>10</sub> . D<sub>10</sub>  
(linear regression analysis)  
, D<sub>10</sub> , 1 D<sub>10</sub>

$$D_{10} = \frac{\text{시간}}{\log_{10}N_0 - \log_{10}N_1}$$

, N<sub>0</sub> , N<sub>1</sub> (t)

1  
(1, 2 3 %) , 100 %가  
가 , (Phospholipid PTC, Mona Industries, Inc., Paterson, New Jersey)

350 % 가 ( 65 %/ 35 %)  
75 g/m<sup>2</sup> 19 cm x 19 cm 가 . 80  
(dispensing tub) 3 /

3 , 1/2 3/4 (3500 bag, Seward Medical, London,  
United Kingdom) ( 44-133, Dake Corporation, Grand Haven, Michigan)  
2 (stomacher bag)  
D<sub>10</sub> 1

1  
성분 pH D<sub>10</sub> 세균 D<sub>10</sub> 효모 D<sub>10</sub> 사상균

1 % 인지질 5.51 <1 <3 \*

2 % 인지질 5.91 <1 <3 \*

3 % 인지질 6.03 <1 <3 \*

\* 미생물 수가 테스트의 변수를 초과하여 계산이 불가능함(무효)

2  
가 1 %, (chamomile) 1 %, PTC 1 %, 100 %가

, 1  
2

2  
성분 pH D<sub>10</sub> 세균 D<sub>10</sub> 효모 D<sub>10</sub> 사상균

0.2 % 쉬이트르산

0.3 % 말산 2.38 <4 \* 48.2

0.3 % 쉬이트르산

0.3 % 말산 2.36 <4 \* 35.2

0.3 % 쉬이트르산

0.5 % 말산 2.35 <4 \* 54.0

\* 실시예 1 참조

3( )  
가 PTC 1 %, ,

1

3

3

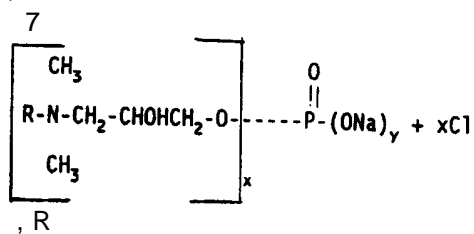
성분	pH	D <sub>10</sub> 세균	D <sub>10</sub> 효모	D <sub>10</sub> 사상균
0.05 % 소르브산	3.63	0.5	21.8	*
0.075 % 소르브산	3.48	1.0	24.8	*
0.1 % 소르브산	3.41	1.0	9.2	8.4
* 1			0.1	%

(57)

1.

, 4

0.1 0.3 1 3 %, pH가 3.5



, R

, x,y , x + y = 3 가

2.

1 , 0.1 0.2 %

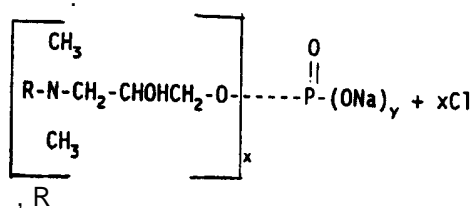
3.

1 , 300 500 %

4.

300 500 %

3 % 0.1 0.3 , 4 % pH 4 6 1



, R

, x,y , x + y = 3 가

5.

4 , 0.1 0.2 %

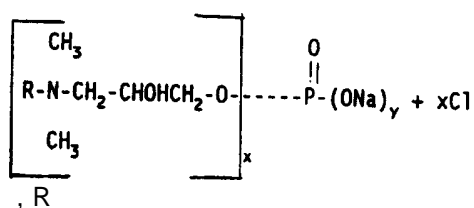
6.

4 , pH가 6

7.

, 4

0.2 % 1 3 %, pH 4 6



, R

, x,y x + y = 3 가

8.

7 , 0.2 1 %

9.

7

10.

, 4

0.1

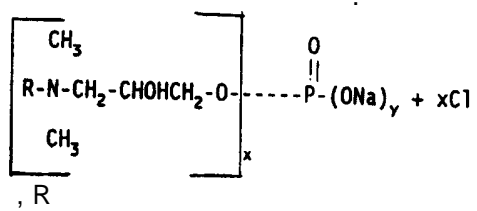
0.3

1  
%

3

%,  
pH 3.5

7



, x,y

, x + y = 3

가

.