

(19)  
(12)

(KR)  
(A)

(51) 。 Int. Cl.<sup>7</sup>  
G01N 30/48

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2003-0095564  
2003 12 24

(21) 10-2002-0032831  
(22) 2002 06 12

(71) 348

(72) 348

:

(54)

가  
(HPLC)

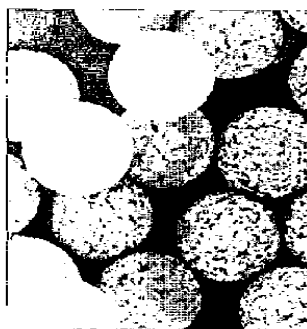
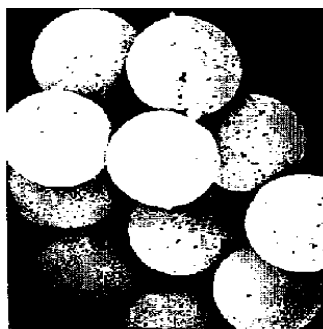
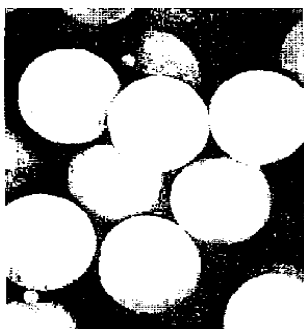
(GPC)

가

(seed)

HPLC GPC

가



G1

G2

G3

GPC, HPLC,

[ 1 ]

[ 2 ] (GPC)

[ 3 ] (HPLC)

C) (GPC) 가 (HPLC)

가

가

가 (μm) (μm) 가 가  
Macromol. Chem., 180, 737(1979), Macromol. Chem., 195, 151(1992)  
, J. Liquid Chromatography, 16, 353-3  
( - )  
65(1993)

μm μm 가 ,가 가

가

(cavity)

가

(binding site)

가

(seed)

4 5 μm

300 1000

가

가

(template molecules)

가

25

60

80

가

가

가

0.1 μm

가  
1.0 μm

가

가

, N-

, N-

, -t-

, 2,4-

가

+2, Zn +2, Cu +2

, DNA,

, Ca

1 100wt% 가 , 가  
 1 100wt% .  
 01 0.5wt% 1 10wt% , 0.0

[ 1]  
 , 가 4 3.12g, -OT 0.86g  
 / 200ml , 27g , 70 200r  
 pm 8 가 1.0 μ m 0.27g 가 ,

[ 2]  
 1 0.2g 10ml , 0.02g  
 가 4 0.5g 가 4- , 가 9.5g ,  
 ( L- ) 1g 가 0.5g , 2,2- 10ml  
 ( ) 0.02g 2.0 % ( )  
 1

125rpm 12 70 2 , 80 8  
 - L- 가 ,

[ 3]  
 4- 2

[ ]  
 2 3 10g 50ml ,  
 (7.8mm×30cm 4.6mm×20cm) 30 , 10  
 200, 500, 1000, 1500psi 10ml/min 가 2

[ 1]

	( μ m)	( μ m)	Vpa) (ml/g)	(%)	ab) (g/ml)
G-1	4.5	0.03	0.8201	15.82	0.9518
G-2	5.0	0.06	1.7695	56.22	0.9823
G-3	5.5	0.10	2.5524	72.05	1.0567

a) b)

[ 2] GPC

Column			NTP a)	$\overline{M}_w$	
GC1	G-1	7.8×30mm	15,00,	500 ~ 20,000	THF
GC2	G-2	'	9,547	1,000 ~ 100,000	'
GC3	G-3	'	8,920	5,000 ~ 500,000	'

a) :  $N_{SA} = 25 \left( \frac{tR}{W_{4,4}} \right)^2$

[ 1]

3 (7.8mm×30cm)

1.0ml/min

[ 2]

3 (4.0mm×20cm)

1.0ml/min

(GPC HPLC)

(57)

1.

(GPC)

(HPLC)

2.

(template molecules)

가

가

가

3.

2

, 2-

, N-

, N-

, 4-

2,2'-

, N-

, 4-

, 4-

4.

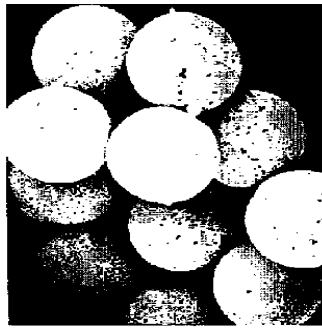
2

5.

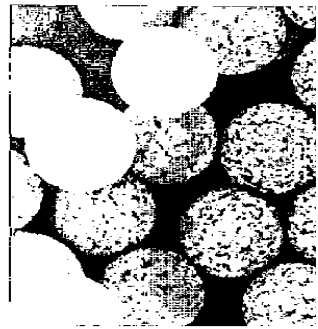
2



G1



G2



G3

