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				108 2001
			(74)	
	:	9		

(54)

(57)

- 1



1

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2

1

,

0.8 ~ 6.4 mm

,

0.15 ~ 1.0

mm

3

0.1 ~ 0.25 mm

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4

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4

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-

(styrene-divinylbenzene)

,

(methacrylate)

(acrylamide)

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6

1 ;

1

2 ;

2

3

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7

6

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8

6

,

1

-

(styrene-divinylbenzene),

(methacrylate)

(acrylamide)

.

9

6

,

2

, 2-

(2-propanol)

80-100 °C

,

40-80 °C

.

[0001]

[0002]

[0003]

(Tubing,) (End-
 fitting Block), (Filler as a Static Phase)
 (Frit)
 (Resolution)

[0004]

Unger "Handbook of HPLC" (1994, GIT-Verlag)

4,399,032 (1983)
 4,966,696 (1990)

5,227,059 (1993)

[0005]

Hernan 4,793,920 (1988) (potassium
 silicate)
 5,679,255 (1997)

[0006]

(Visser's , J. Chromatogr. A, 1999, 856, 117-143; Jinno , Trends in
 Analytical Chemistry, 2000, 19, 664-675; Bartle , J. Chromatogr. A, 2000, 892, 279-290)

(Boughtflower , Chromatographia, 1995, 40, 329; Smith , Chromatographia, 1994, 38, 649).
 5,858,241 (1999)

6,136,187 (2000) (metal
 alkoxide)

[0007]

3
 (porosity)

2 ~ 5 mm, 10 ~30 cm

[0008]

(porogen)
 (Bartle
 , *J. Chromatogr. A*, **2000**, 892, 279-290; Tang , *J. High Resolut. Chromatogr.*, **2000**, 23, 73),
 - (styrene-divinylbenzene) (Gusev , *J. Chromatogr. A*, **1999**, 855,
 273-290), (methacrylate) (Peters , *Anal. Chem.*, **1988**, 70, 2296; Coufal ,
J. Chromatogr. A, **2002**, 946, 99-106), (acrylamide) (Fujimoto , *J. Chromatogr.*
A, **1995**, 716, 107; Hoegger , *J. Chromatogr. A*, **2001**, 914, 211-222) .

[0009]

2001-057516

[0010]

[001]

0.5 mm

[0012]

(tubing)

[0013]

[0014]

- [0015] , , .
- [0016] 1 ; 1
2 ; 2
3 ; , .
- [0017] , .
- [0018] 1 , , .
- [0019] , , .
- [0020] , , 0.8 ~ 6.4 mm
0.15 1.0 mm .
0.8 ~ 1.6 mm, 0.15 ~ 0.25 mm
0.1 ~ 1.0 mm 0.1
~ 0.25 mm .
- [0021] , ,
(styrene-divinylbenzene) (methacrylate)
(acrylamide)
- [0022] , 2 ,
- [0023] 1 ; 1
2 ; 2
3 ; , .
- [0024] , 1 , , .
- [0025] , , , .
(porogen) , ,
(methacrylate) (styrene-divinylbenzene)
(acrylamide)
- [0026] , 2 1 ,

2 (2-propanol)
 80-100 °C , 40-80 °C
 80-100 °C
 (toluene) 1-20 6-24
 2- (2-propanol) 1-20 6-24
 40-80 °C 6-24

[0027]

3 2

[0028]

0.1 ~ 0.25 mm

[0029]

[0030]

[0031]

[0032]

< 1>

[0033]

170 (styrene), 170 (divinylbenzene), 80
 (tetrahydrofuran), 600 1- (1-octanol) 10 AIBN
 10 30cm, 1.6 mm, 0.18 mm (Tefzel)
 60 °C 48 80 °C
 (toluene) 5
 12 2- (2-propanol) 5 12
 60 °C 6
 0.1~ 0.25 mm

[0034]

[0035]

1 , 0.18 mm
 , 2, 3

[0036]

< 1>

[0037]

(30cm, 0.5
 mm)
 4

[0038] 5 3 15

5 μ Alltima C18 , 14,000 psi

10 , 10,000 psi 2 8,000 psi 30

2- (acetonitrile) 50mM (ammonium acetate) 60/40%(v/v)

10 15

1

1

[0039] 15

()

	14000 ± 1100	12500 ± 900
2-	16600 ± 1300	14600 ± 1000
	16800 ± 1500	14800 ± 1200
	17600 ± 1300	15100 ± 1300
??	17500 ± 1100	15000 ± 1000

[0040] 5

6 1, 5 6

(

1.6mm, 0.08 mm) (0.18mm, 0.1-0.25 mm)

[0041] , , ,

[0042] 1 ;

[0043] 2 ;

[0044] 3 ;

[0045] 4 ;

[0046] 5 ;

[0047] 6

[0048] , 5 6 ,

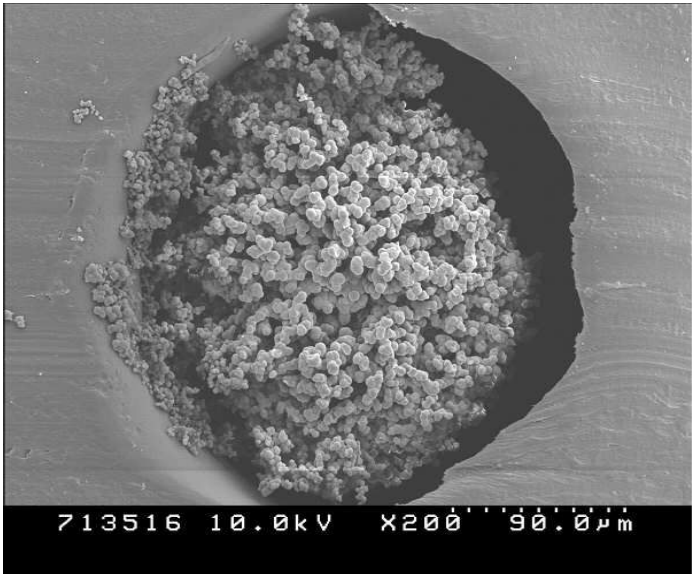
[0049] 1:

- [0050] 2: 2-
- [0051] 3:
- [0052] 4:
- [0053] 5:

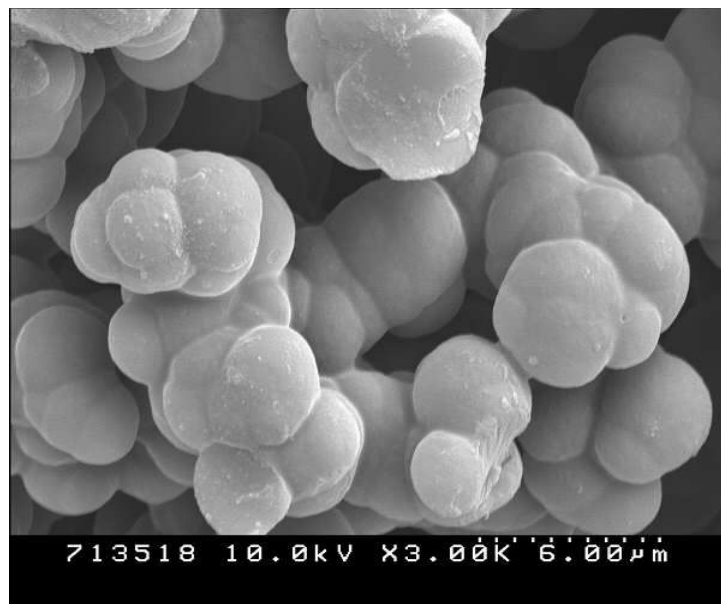
1



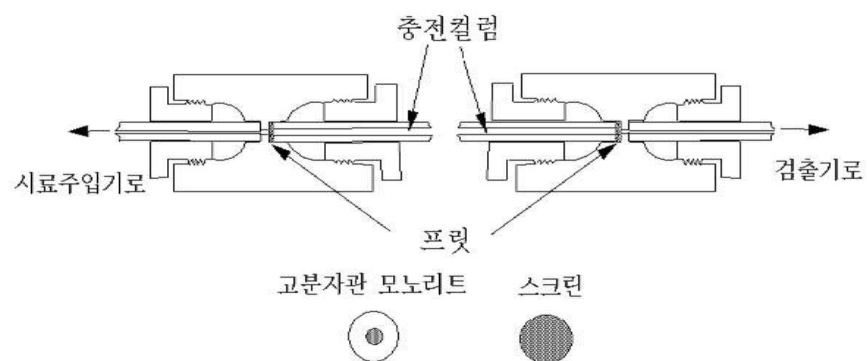
2



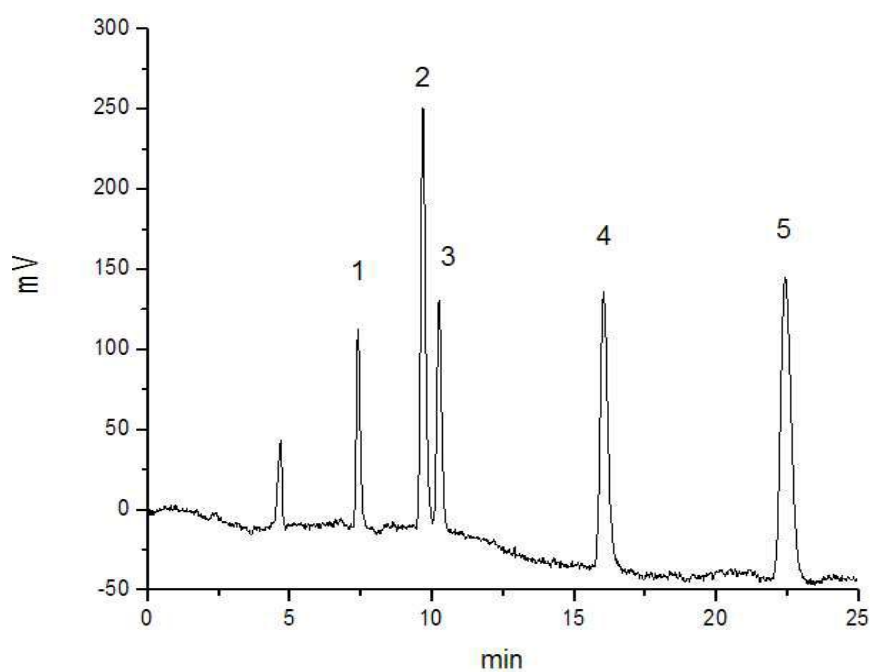
3



4



5



6

