Develosil Me 100

It is new series release from Develosil. An original new technique is included in this column. Develosil XG-C18 supports the wide field including medicine and agriculture and the food.

1. Specifications

Silica base

This product uses a Silicagel with a few impurities.

Usability

As for this column, equilibrium is early and the pressure is low, too.

Stability

The Develosil series produces it from a Silicagel to a column in the company.

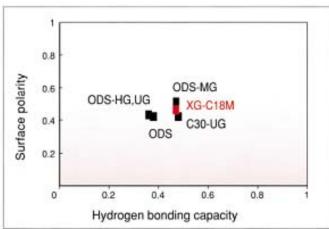
We carry out severe quality control in all processes.

Characteristic of Develosil XG-C18

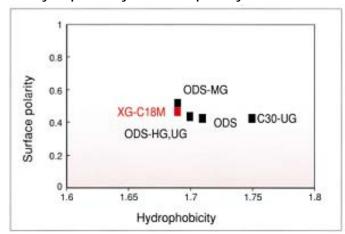
Surface area	300m²/g
Pore diameter	14nm
Pore volume	1.10mL/g
Ligand	Octadecyl (Mono)
Carbon content	19%
Endcapping	0
pH range	pH1.5-8

2. Product inspection of Develosil XG-C18

1. Hydrogen bonding capacity – Surface polarity

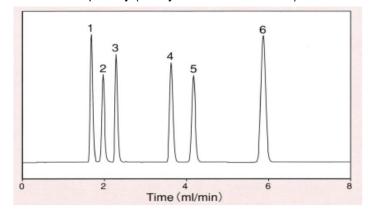


2. Hydrophobicity - Surface polarity



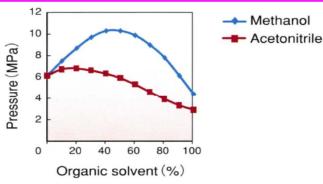
The parameter mentioned above was calculated that the following selectivity.

- -Hydrogen bonding capacity α(Caffeine / Phenol)
- Hydrophobicity a (Toluene / Benzene)
- Surface polarity (Methyl Benzoate / Toluene)



Conditions		
Column	Develosil XG-0	C18M (5um)
Size	4.6x150mm	
Mobile Phase	Methanol / Wa	ter = 70 / 30
Flow rate	1.0 ml / min	
Temperature	40°C	
Detection	UV254nm	
Sample	1. Uracil (t ⁰)	2. Caffeine
	3. Phenol	4. Methyl Benzoate
	5. Benzene	6. Toluene

3. Column pressure of Develosil XG-C18



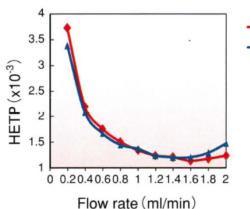
※These date are pressure displayed by as system.

Conditions	
Column	Develosil XG-C18M (5um)
Size	4.6x150mm
Mobile Phase	Methanol / Water
	Acetonitrile / Water
Flow rate	1.0 ml / min

Develosil XG series shows low pressure. Follows are enabled

- Flow rate up
- High composition of the pressure is usable

4. van Deemter plot of Develosil XG-C18

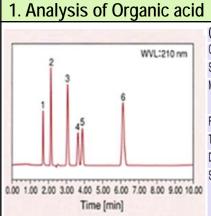




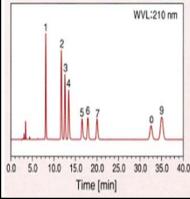
Conditions	
Column	Develosil XG-C18M (5um)
Size	4.6x150mm
Mobile Phase	(Toluene) Acetonitrile / Water =50 /50
	(Phenol) Acetonitrile / Water =10 / 90
Temperature	40°C
Detection	UV25nm
Sample	Toluene (0.01 mL / mL)
	Phenol (0.05 mg / mL)
Injection volume	1.0 uL

Analysis systems

5. Analysis example



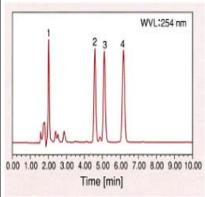
Conditions Column Develosil XG-C18M (5um) 4.6x 150mm Size Mobile Phase Acetonitrile / 0.2% Phosphoric acid = 2/98 1.0 ml / min Flow rate Temperature 40°C Detection UV210nm 1. Oxalic acid 2. L-Ascorbic acid Sample 3. Citric acid 4. Succinic acid 5. DL- Malic acid 6. Propionic acid



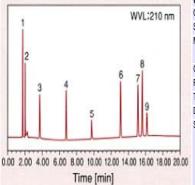
2. Analysis of pesticide

	Condition	15		
	Column	Dev elosil XG-C18M (5um)		
	Size	4.6x 150mm		
	Mobile Phase	Acetonitrile / 0.1%		
		Phosphoric acid = 40 / 60		
	Flow rate	1.0 ml / min		
	Temperature	40°C		
	Detection	UV210nm		
	Sample	Tguiogabate-methyl 2. Bentazone		
		3. Thiuram 4. 2,4-PA		
		5. Triclopy r 6. Flazasulfuron		
0	7. MCPP 8. Halosulfuron-methyl			
		9. Dy mron		

3. Analysis of steroid



Conditions			
Column	Dev elosil XG-C18M (5um)		
Size	4.6x150mm		
Mobile Phase	Acetonitrile / Water = 50/ 50		
Flow rate	1.0 ml / min		
Temperature	40°C		
Detection	UV254nm		
Sample	1. Estriol		
	2. β -Estradiol		
	3. 17 α -Estradiol		
	4. Estron		



	Conditions				
	Column	Dev elosil XG-C18M (5um)			
	Size	4.6x 150mm			
	Mobile Phase	A) Acetonitrile + 0.2% Phosphoric acid			
		B) 0.2% Phosphoric acid			
	Gradient	A) 10% - 70% → 70% (25min)			
	Flow rate	1.0 ml / min			
	Temperature	40°C			
	Detection	UV210nm			
	Sample	1. Pyridox ine HCI 2. I-Pheny lephrine HC			
		3. Acetaminophen 4. Guaifenesin			
		5. Diphenhy dramine HCI 6. Ketoprofen			
0		7. Flurbiprofen 8. Indomethacin			
		9 Ihunrofen			

6. Price List

I.D. 2.0mm, 3.0mm, 4.0mm same price

Conventional columns

Packing name	Column size (I.D. x Length)	Particle size	P/N	Price (yen)
	4.6x35mm	3	XG18M346035W	32,000
	4.6x50mm		XG18M346050W	34,000
	4.6x75mm		XG18M346075W	37,000
	4.6x100mm		XG18M346100W	41,000
	4.6x150mm		XG18M346150W	47,000
XG-C18M	4.6x250mm		XG18M346250W	61,000
AG-C TOW	4.6x35mm	5	XG18M546035W	30,000
	4.6x50mm		XG18M546050W	32,000
	4.6x75mm		XG18M546075W	35,000
	4.6x100mm		XG18M546100W	39,000
	4.6x150mm		XG18M546150W	45,000
	4.6x250mm		XG18M546250W	59,000

■ Guard column for conventional

product name	P/N	Price (yen)
Guarad cartreige (4pieces) 4.0x10mm	XG18540010C	18,000
Guard cartridge Holder 4.0x10mm	HO00040010C	9,500
Guard cartridge Set 4.0x10mm 💥	XG18540010W	14,000

※ Guard cartridge set = Holder (1piece) + cartridge 4.0x10mm (1piece)

Semi-micro columns

Packing name	Column size (I.D. x Length)	Particle size	P/N	Price (yen)
	2.0x35mm	3	XG18M320035W	32,000
	2.0x50mm		XG18M320050W	34,000
	2.0x75mm		XG18M320075W	37,000
	2.0x100mm		XG18M320100W	41,000
	2.0x150mm		XG18M320150W	47,000
XG-C18M	2.0x250mm		XG18M320250W	61,000
VG-C LOIM	2.0x35mm	5	XG18M520035W	30,000
	2.0x50mm		XG18M520050W	32,000
	2.0x75mm		XG18M520075W	35,000
	2.0x100mm		XG18M520100W	39,000
	2.0x150mm		XG18M520150W	45,000
	2.0x250mm		XG18M520250W	59,000

■ Guard column for Semi-micro

product name	P/N	Price (yen)
Guarad cartreige (4pieces) 1.5x10mm	XG18515010C	20,000
Guard cartridge Holder 1.5x10mm	HO00015010C	15,000
Guard cartridge Set 1.5x10mm ※	XG18515010W	20,000

☆ Guard cartridge set = Holder (1piece) + cartridge 1.5x10mm (1piece)

Prep columns

Packing name	Column size	Particle size	P/N	Price (yen)
	(I.D. x Length)		1710	1 1100 (3 611)
XG-C18M	10x150mm	5	XG18M5P1150W	140,000
	10x250mm		XG18M5P1250W	156,000
	20x150mm		XG18M5P2150W	245,000
	20x250mm		XG18M5P2250W	320,000

■ Prep guard column

Packing name	Column size (I.D. x Length)	Particle size	P/N	Price (yen)
XG-C18M	8.0x10mm (for I.D. 10mm)	5	XG18M580010W	20,000
	20x50mm		XG18M5P2050W	100,000

note:

Guard cartridge Set: When using it for the first time. It can be used immediately.

Gurad cartridge (4pieces): Cartridge for exchange

Guard cartridge Holder: If there is not a cartreidge for exchange, I cannot use it.

Please contact the following, when you wish the size which has not been published to the above price list.

[Contact]
NOMURA CHEMICAL CO.,LTD

http://www.develosil.net

HEAD OFFICE:

15, Hinode-cho, Seto, 489-0004, Japan

E-mail: info@develosil.net