

<< Develosil Column >>

TEST REPORT

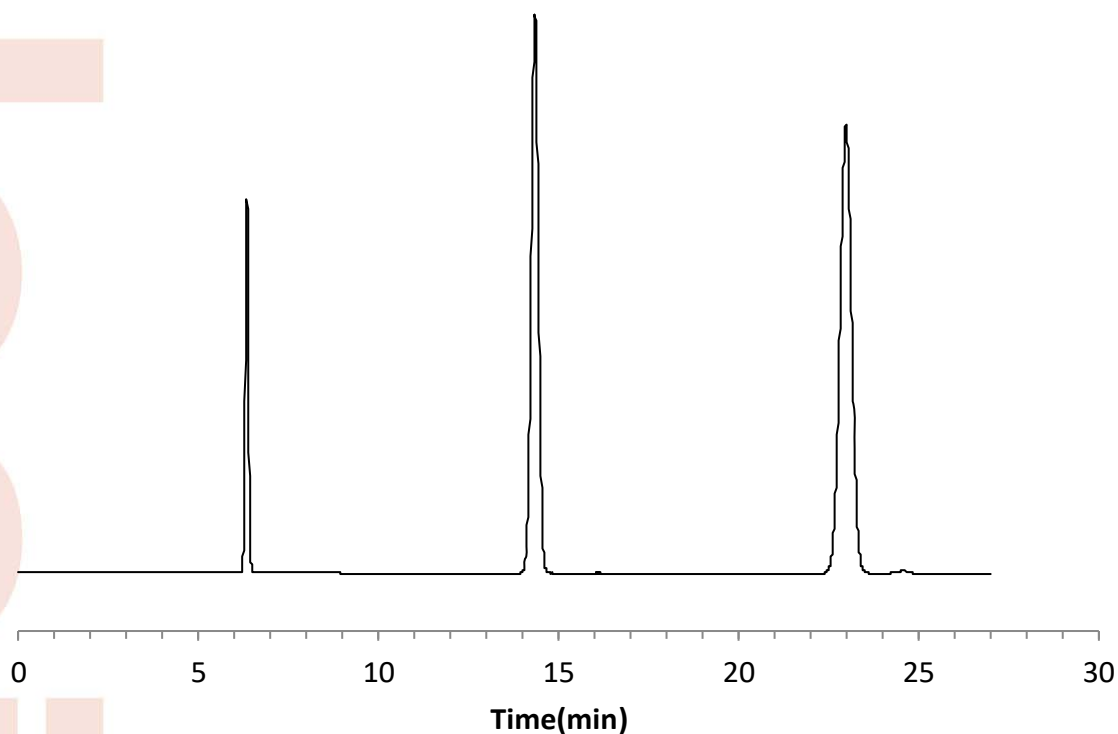
Packings	Develosil	ODS-MG, 5um	Batch No.	170516
Column size	Inner diameter	4.6 mm	Length	250 mm
End fitting type	NW			
Mfg. No.	23031883-MQ			

Operating conditions

Mobile phase	:	Acetonitrile:water=70:30
Flow rate	:	1.0 mL/min
Column temp.	:	30 °C
Pressure	:	6.8 MPa
Detection	:	UV 254 nm

Sample (Order of elution)

- 1 Benzene
- 2 Fluorene
- 3 Pyrene



Theoretical plate	(Last peak)	$5.54 \times (t_R/W_{0.5})^2 = 22732$
Asymmetry factor	(10% Height of Last peak)	= 0.99

Mobile phase at shipment: Acetonitrile:water=70:30

Certificate of Analysis

Develosil ODS-MG-5

Batch # 170516

Analytical Results for Develosil ODS-MG-5

Analysis of Unbonded Silica Gel	Result
Median Particle Size [μm]	4.97
Surface Area [m^2/g]	424
Pore Volume [ml/g]	1.09
Median Pore Diameter [nm]	9.43

※Median Particle Size was measured using Coulter Multisizer III, and Surface Area, Pore Volume and Median Pore Diameter were measured using Coulter SA3100.

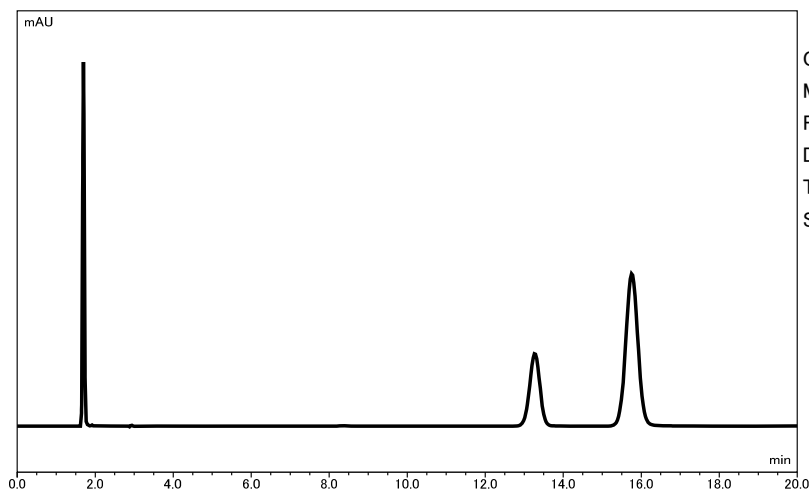
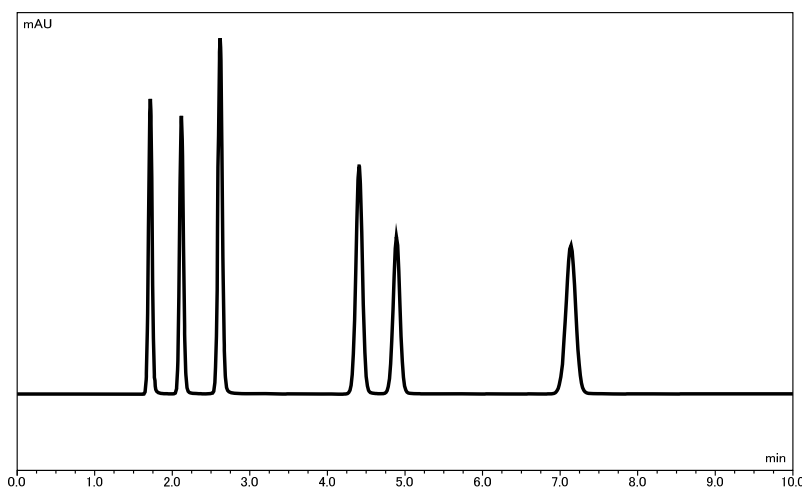
Analysis of Develosil ODS-MG-5

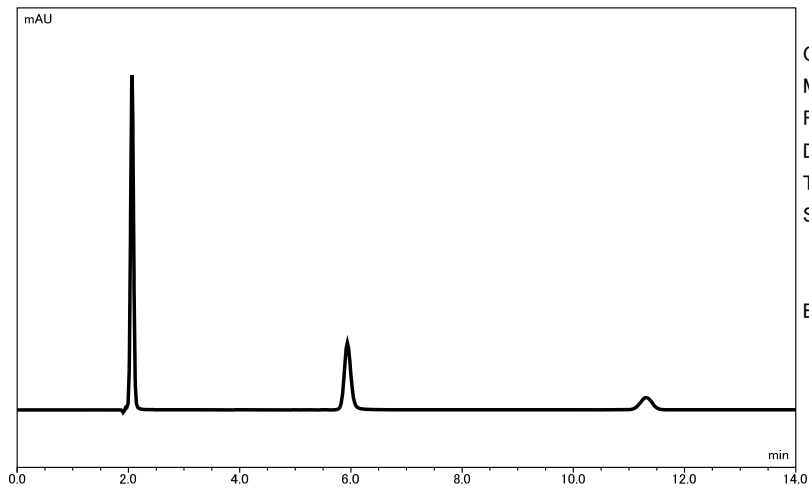
Total carbon [%]	14.7
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Chromatographic Results for Develosil ODS-MG-5

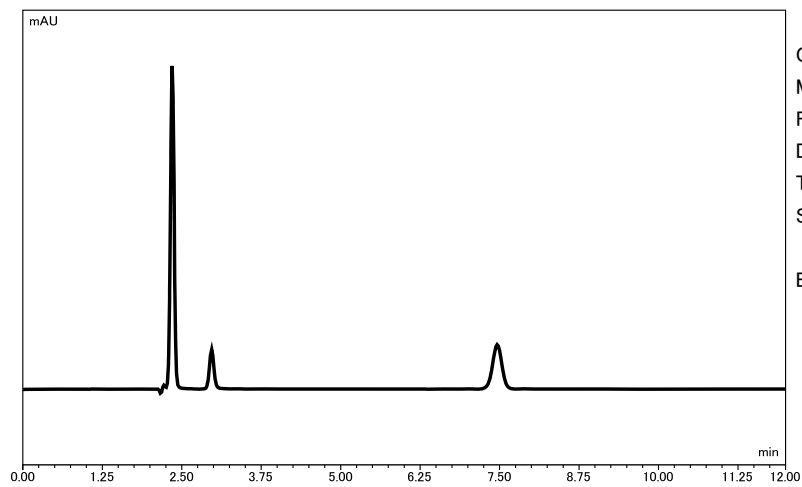
Separation Factor

α (Caffeine/Phenol)	0.44
α (Toluene/Benzene)	1.71
α (Methyl benzoate/Toluene)	0.50
α (Triphenylene/o-Terphenyl)	1.22
α (Pyridine/Phenol)	0.42
α (Oxine-Copper/Caffeine)	0.12





Column size :150x4.6mm I.D.
Mobile Phase :CH₃OH/Buffer(30/70)
Flow rate :1.0ml/min
Detection :UV 254nm
Temperature :40°C
Sample 1:Uracil
2:Pyridine
3:Phenol
Buffer:25mM Ammonium Phosphate (pH7.0)



Column size :150x4.6mm I.D.
Mobile Phase :CH₃OH/Buffer(20/80)
Flow rate :1.0ml/min
Detection :UV 254nm
Temperature :40°C
Sample 1:Oxine-Copper
2:Caffeine
Buffer:25mM Ammonium Phosphate (pH2.0)