<< Develosil Column >>

TEST REPORT

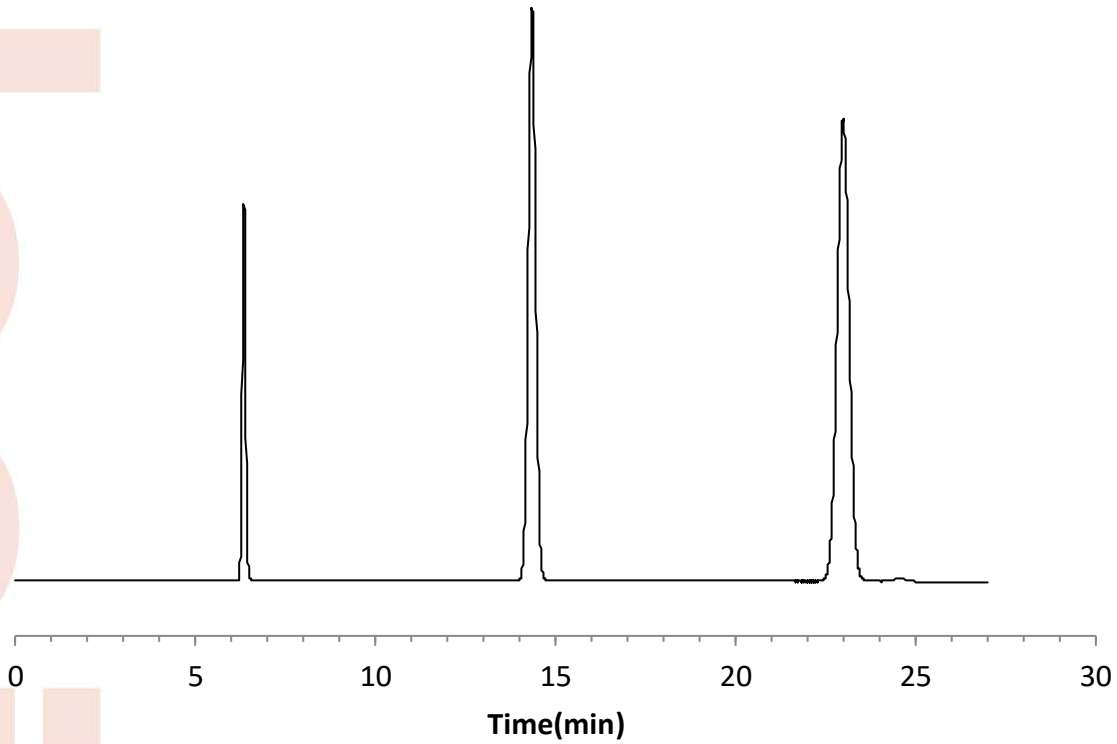
Packings	Develosil	ODS-MG, 5um		Batch No.	170516
Column size	Inner diameter	4.6	mm	Length	250 mm
End fitting type	NW				
Mfg. No.	23031845-YT				

Operating conditions

Mobile phase	: Acetonitrile:water=70:30		
Flow rate	:	1.0	mL/min
Column temp.	:	30	℃
Pressure	:	6.7	MPa
Detection	:	UV 254	nm

Sample (Order of elution)

1. Benzene
2. Fluorene
3. Pyrene



Theoretical plate (Last peak) $5.54 \times (t_R/W_{0.5})^2 = 21505$

Asymmetry factor (10% Height of Last peak) = 1.01

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

for Liquid Chromatography Develosil™
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Certificate of Analysis

Develosil ODS-MG-5 **Batch # 170516**

Analytical Results for Develosil ODS-MG-5

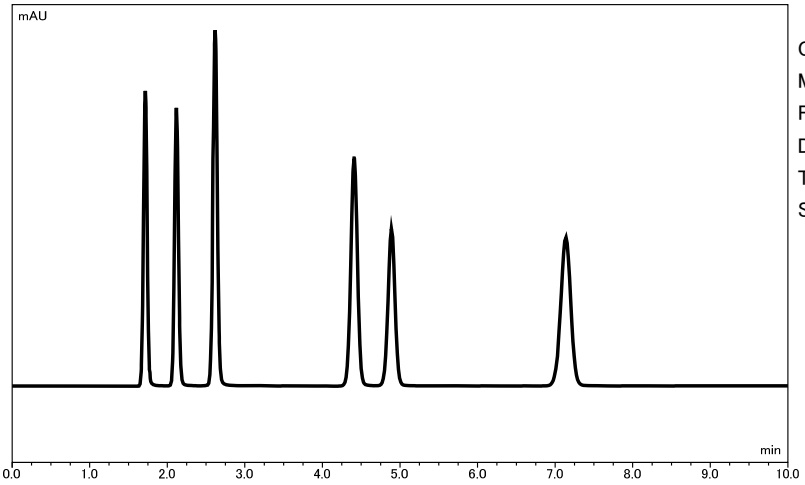
Analysis of Unbonded Silica Gel		Result
Median Particle Size	[μm]	**4.97**
Surface Area	[m^2/g]	**424**
Pore Volume	[ml/g]	**1.09**
Median Pore Diameter	[nm]	**9.43**

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

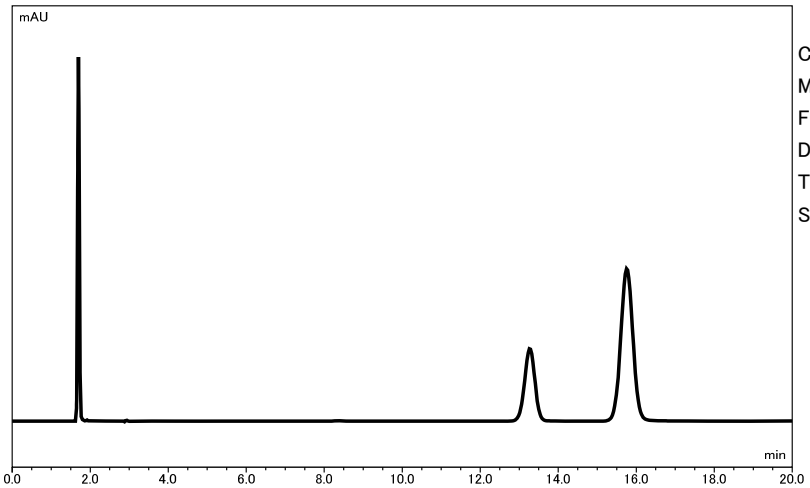
Analysis of Develosil ODS-MG-5		
Total carbon	[%]	**14.7**

Chromatographic Results for Develosil ODS-MG-5

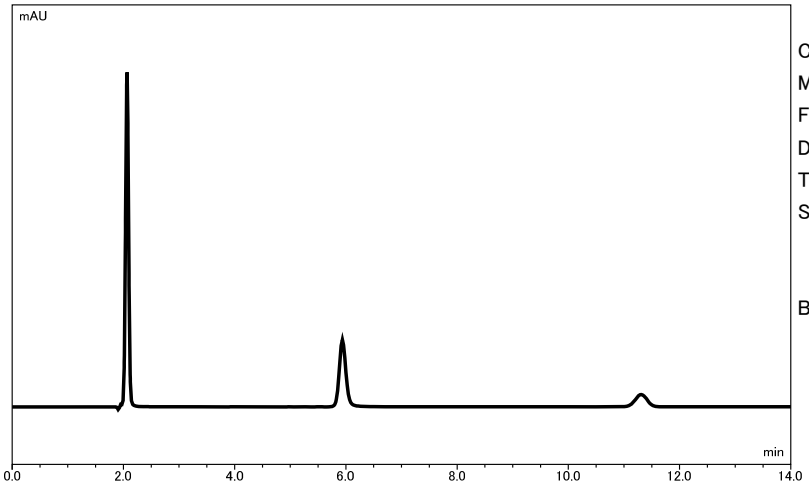
Separation Factor	
α(Caffeine/Phenol)	**0.44**
α(Toluene/Benzene)	**1.71**
α(Methyl benzoate/Toluene)	**0.50**
α(Triphenylene/o-Terphenyl)	**1.22**
α(Pyridine/Phenol)	**0.42**
α(Oxine-Copper/Caffeine)	**0.12**



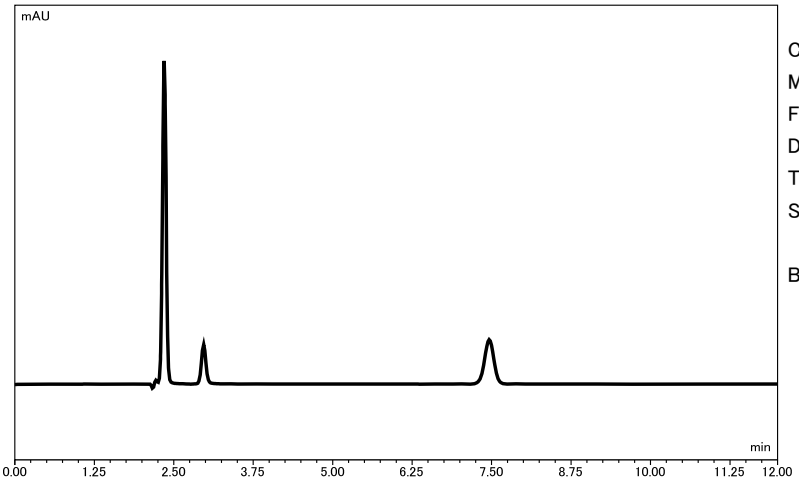
Column size :150x4.6mm I.D.
Mobile Phase :CH_3OH/Water(70/30)
Flow rate :1.0ml/min
Detection :UV 254nm
Temperature :40℃
Sample 1:Uracil
2:Caffeine
3:Phenol
4:Methyl benzoate
5:Benzene
6:Toluene



Column size :150x4.6mm I.D.
Mobile Phase :CH_3OH/Water(80/20)
Flow rate :1.0ml/min
Detection :UV 254nm
Temperature :40℃
Sample 1:Uracil
2:o-Terphenylen
3:Triphenylene



Column size :150x4.6mm I.D.
Mobile Phase :CH_3OH/Buffer(30/70)
Flow rate :1.0ml/min
Detection :UV 254nm
Temperature :40℃
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℃
Sample 1:Oxine-Copper
2:Caffeine
Buffer:25mM Ammonium Phosphate (pH2.0)