<< Develosil Column >>

TEST REPORT

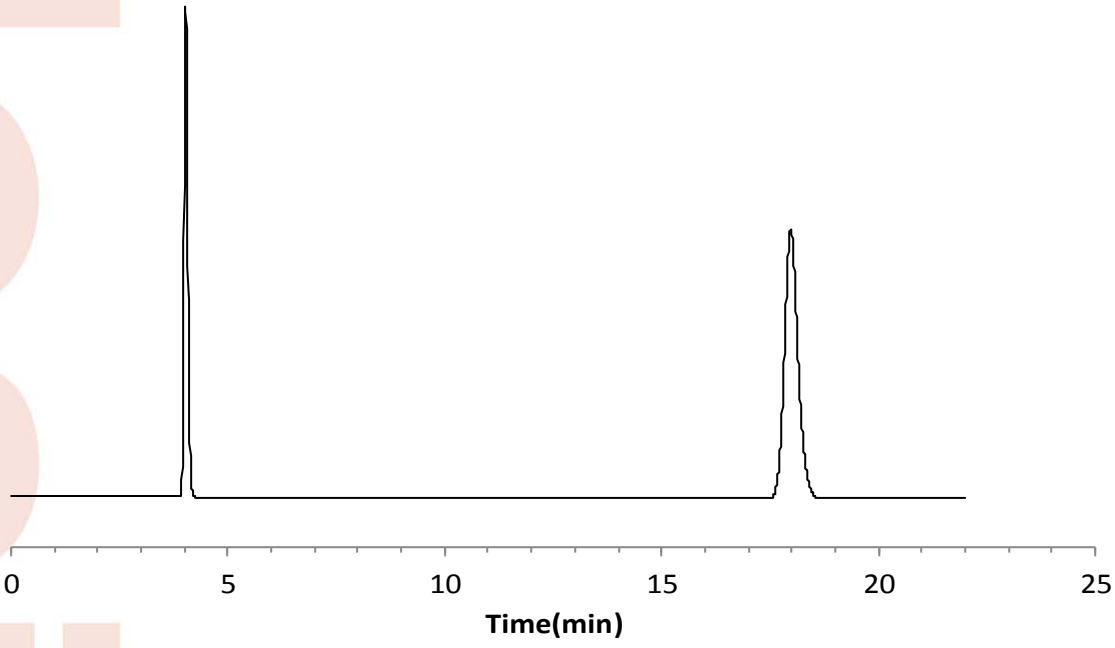
Packings	Develosil	CN-UG, 5 µm		Batch No.	150413
Column size	Inner diameter	4.6 mm		Length	250 mm
End fitting type	NW				
Mfg. No.	09111889-WT				

Operating conditions

Mobile phase	: Methanol:water=40:60		
Flow rate	:	0.8	mL/min
Column temp.	:	30	℃
Pressure	:	9.5	MPa
Detection	:	UV 254	nm

Sample (Order of elution)

1 Uracil
2 Naphthalene



Theoretical plate (Last peak) $5.54 \times (t_R/W_{0.5})^2 = 16413$

Asymmetry factor (10% Height of Last peak) = 1.13

Mobile phase at shipment: Methanol:water=40:60

for Liquid Chromatography Develosil™
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Certificate of Analysis

Develosil CN-UG-5 **Batch # 150413**

Analytical Results for Develosil CN-UG-5

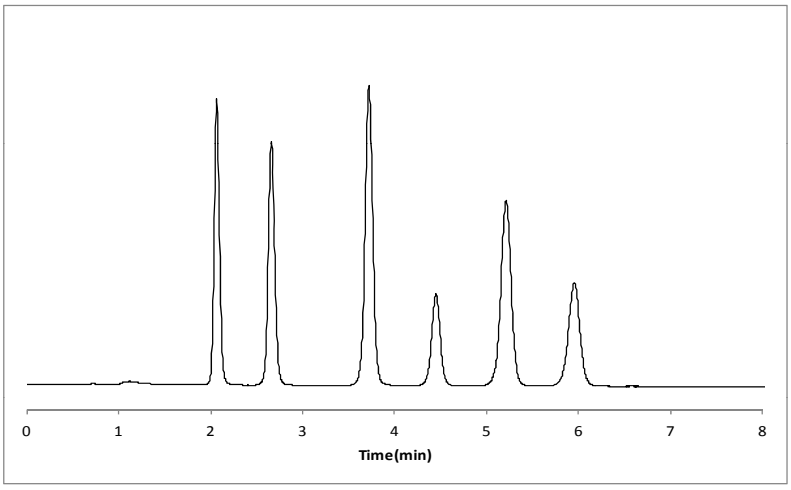
Analysis of Unbonded Silica Gel		Result
Median Particle Size	[μm]	**5.34**
Surface Area	[m^2/g]	**334**
Pore Volume	[ml/g]	**1.11**
Median Pore Diameter	[nm]	**11.76**

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

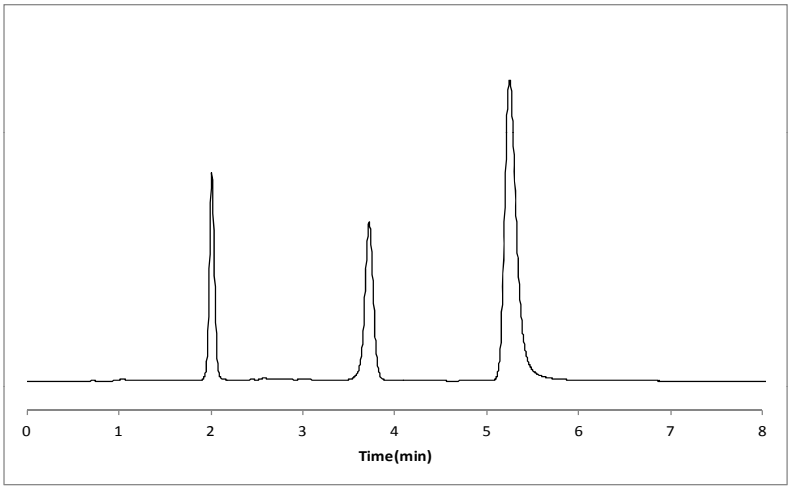
Analysis of Develosil CN-UG-5		
Total carbon	[%]	**7.33**

Chromatographic Results for Develosil CN-UG-5

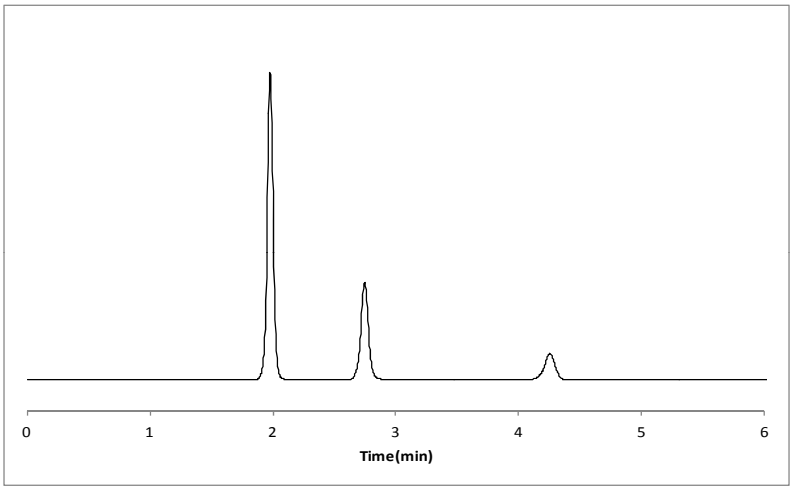
Separation Factor	
α(Caffeine/Phenol)	**0.36**
α(Toluene/Benzene)	**1.63**
α (Methyl benzoate/Toluene)	**0.81**
α (Triphenylene/O-Terphenyl)	**1.89**
α (Pyridine/Phenol)	**0.36**



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



Column size :150x4.6mm I.D.
Mobile Phase :CH_3OH/Water(65/35)
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 :ACN/Buffer(20/80)
Flow rate :1.0ml/min
Detection :UV 254nm
Temperature :40℃
Sample 1:Uracil
2:Pyridine
3:Phenol
Buffer: 50mM Ammonium acetate (pH7.0)