

<< Develosil Column >>

TEST REPORT

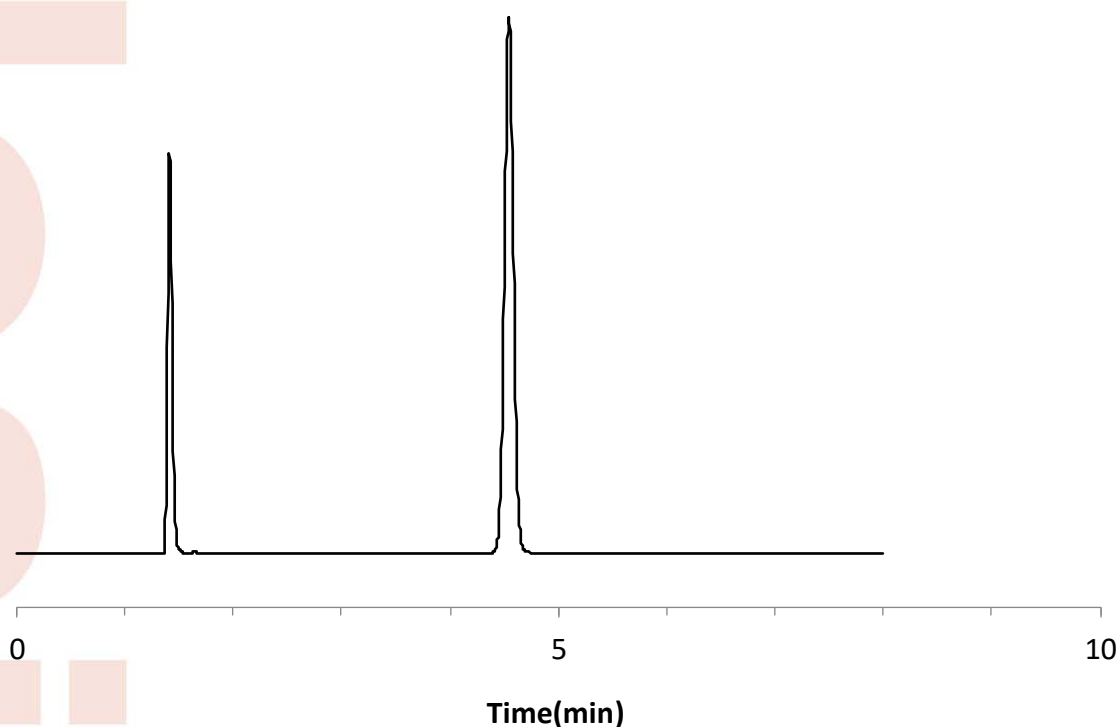
Packings	Develosil	ODS-HG, 5 μ m	Batch No.	30011
Column size	Inner diameter	4.6 mm	Length	150 mm
End fitting type	NW			
Mfg. No.	16052075C-DA			

Operating conditions

Mobile phase	: Acetonitrile:water=70:30
Flow rate	: 1.0 mL/min
Column temp.	: 30 $^{\circ}$ C
Pressure	: 4.3 MPa
Detection	: UV 254 nm

Sample (Order of elution)

- 1 Uracil
- 2 Naphthalene



Theoretical plate	(Last peak) $5.54 \times (t_R/W_{0.5})^2 = 14152$
Asymmetry factor	(10% Height of Last peak) = 1.05
Mobile phase at shipment:	Acetonitrile:water=70:30

Certificate of Analysis

Develosil ODS-HG-5

Batch # 30011

Analytical Results for Develosil ODS-HG-5

Analysis of Unbonded Silica Gel		Result
Median Particle Size	[μm]	5.37
Surface Area	[m^2/g]	302
Pore Volume	[ml/g]	1,10
Median Pore Diameter	[nm]	13.79

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

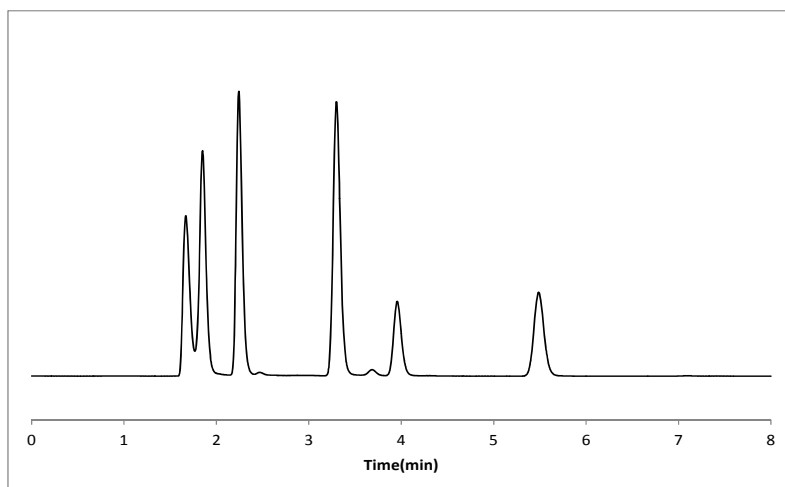
Analysis of Develosil ODS-HG-5

Total carbon	[%]	18.36
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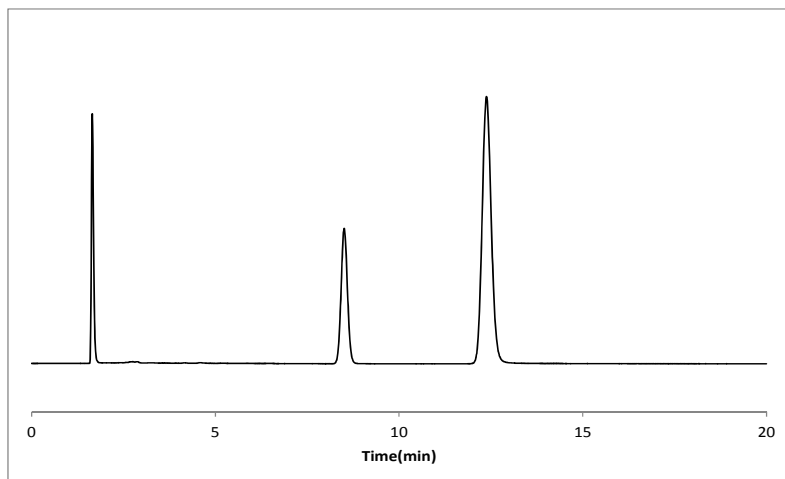
Chromatographic Results for Develosil ODS-HG-5

Separation Factor

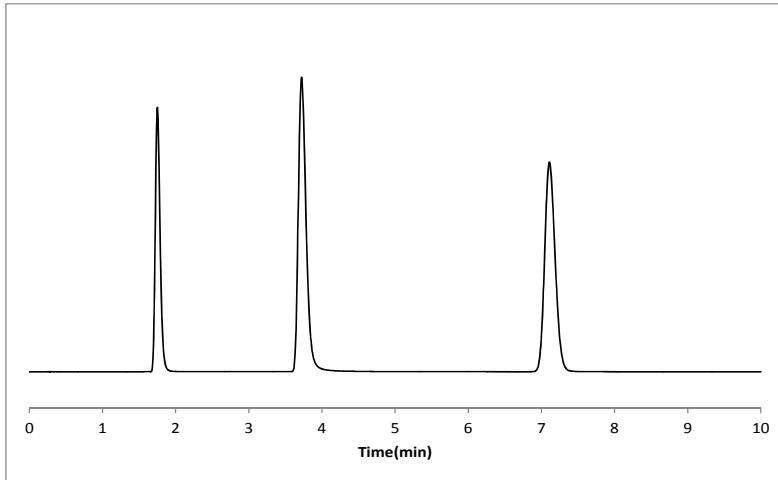
α (Caffeine/Phenol)	0.32
α (Toluene/Benzene)	1.67
α (Methyl benzoate/Toluene)	0.43
α (Triphenylene/o-Terphenyl)	1.56
α (Pyridine/Phenol)	0.37
α (Oxine-Copper/Caffeine)	0.13
α (Formic acid/Acetic acid)	0.20



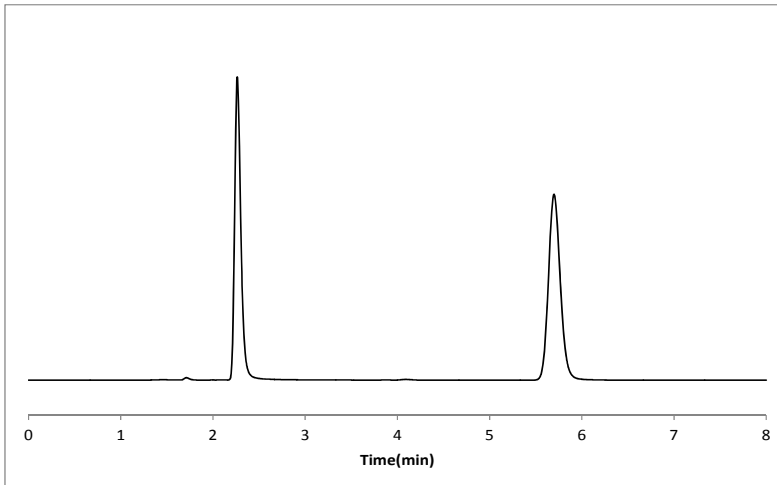
Column size :150x4.6mm I.D.
 Mobile Phase :CH₃OH/Water(70/30)
 Flow rate :1.0ml/min
 Detection :UV 254nm
 Temperature :40°C
 Sample
 1:Uracil
 2:Caffeine
 3:Phenol
 4:Methyl benzoate
 5:Benzene
 6:Toluene



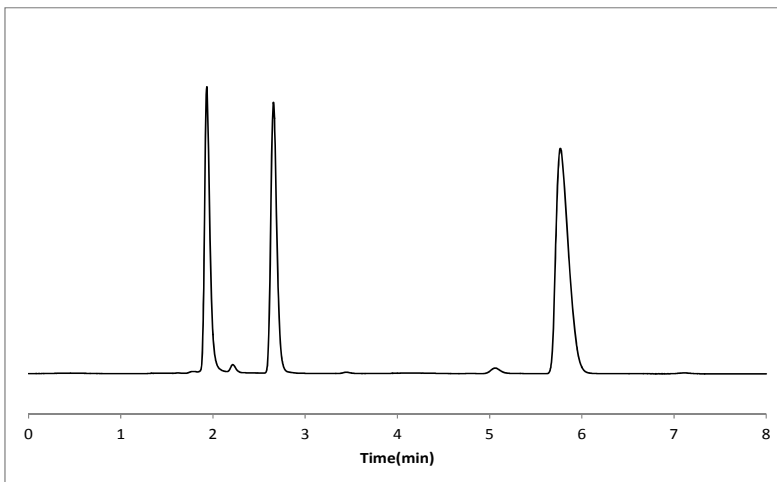
Column size :150x4.6mm I.D.
 Mobile Phase :CH₃OH/Water(80/20)
 Flow rate :1.0ml/min
 Detection :UV 254nm
 Temperature :40°C
 Sample
 1:Uracil
 2:o-Terphenylen
 3:Triphenylene



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



Column size :150x4.6mm I.D.
 Mobile Phase :CH₃CN/0.2%H₃PO₄(10/90)
 Flow rate :1.0ml/min
 Detection :UV 254nm
 Temperature :40°C
 Sample 1:Oxine-Copper
 2:Caffeine



Column size :150x4.6mm I.D.
 Mobile Phase :CH₃CN/0.2%H₃PO₄(2/98)
 Flow rate :1.0ml/min
 Detection :UV 210nm
 Temperature :40°C
 Sample 1:Formic acid
 2:Acetic acid
 3:Propionic acid