

<< Develosil Column >>

TEST REPORT

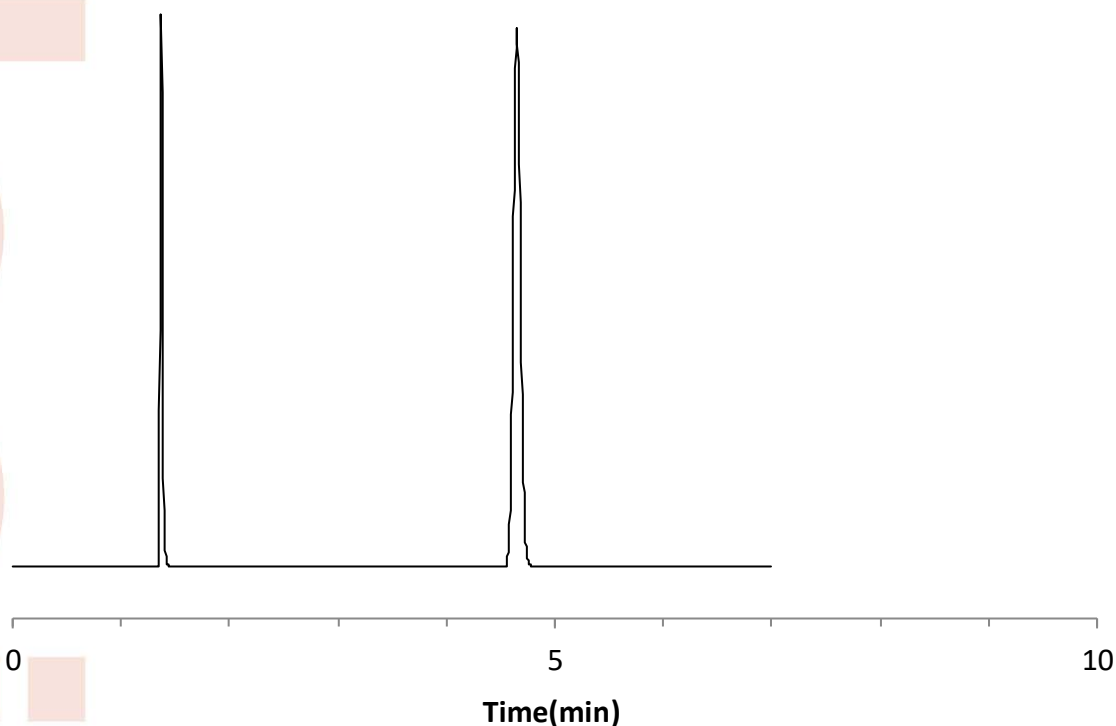
Packings	Develosil	ODS-HG, 3 μm	Batch No.	240414
Column size	Inner diameter	4.6 mm	Length	150 mm
End fitting type	NW			
Mfg. No.	12032061C-OI			

Operating conditions

Mobile phase	:	Acetonitrile:water=70:30
Flow rate	:	1.0 mL/min
Column temp.	:	30 °C
Pressure	:	8.7 MPa
Detection	:	UV 254 nm

Sample (Order of elution)

- 1 Uracil
- 2 Naphthalene



Theoretical plate	(Last peak)	$5.54 \times (t_R/W_{0.5})^2 = 22500$
Asymmetry factor	(10% Height of Last peak)	= 1.02

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

Certificate of Analysis

Develosil ODS-HG-3

Batch # 240414

Analytical Results for Develosil ODS-HG-3

Analysis of Unbonded Silica Gel	Result
Median Particle Size [μm]	3.35
Surface Area [m^2/g]	304
Pore Volume [ml/g]	1.10
Median Pore Diameter [nm]	13.86

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

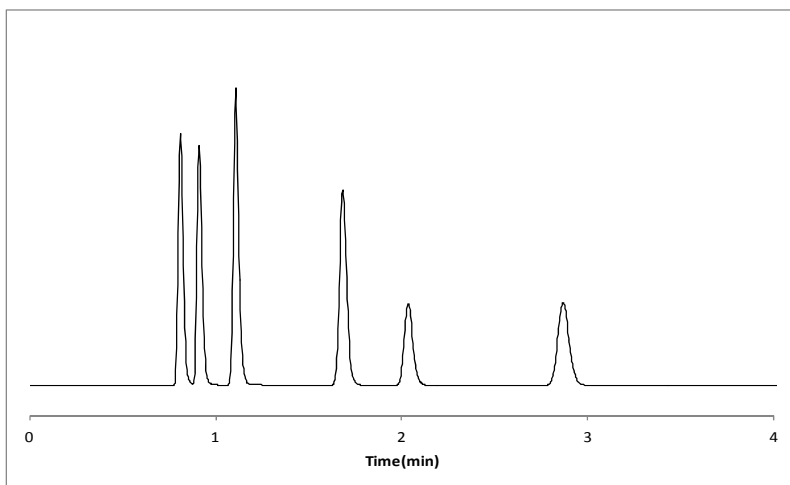
Analysis of Develosil ODS-HG-3

Total carbon [%]	17.97
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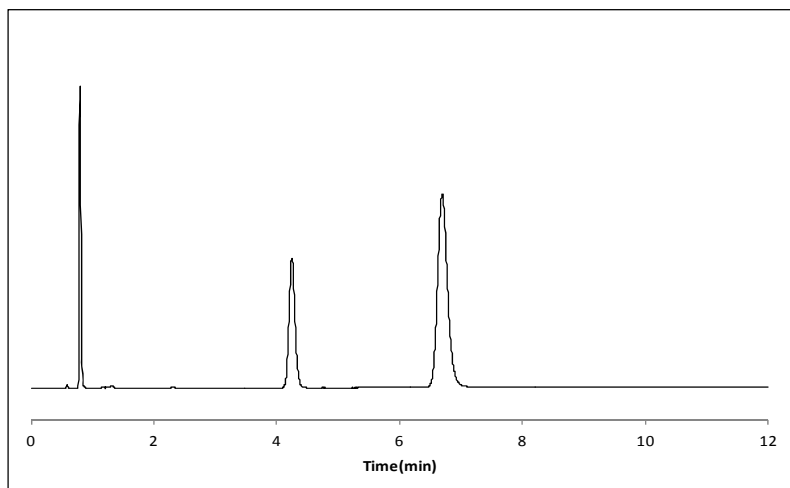
Chromatographic Results for Develosil ODS-HG-3

Separation Factor

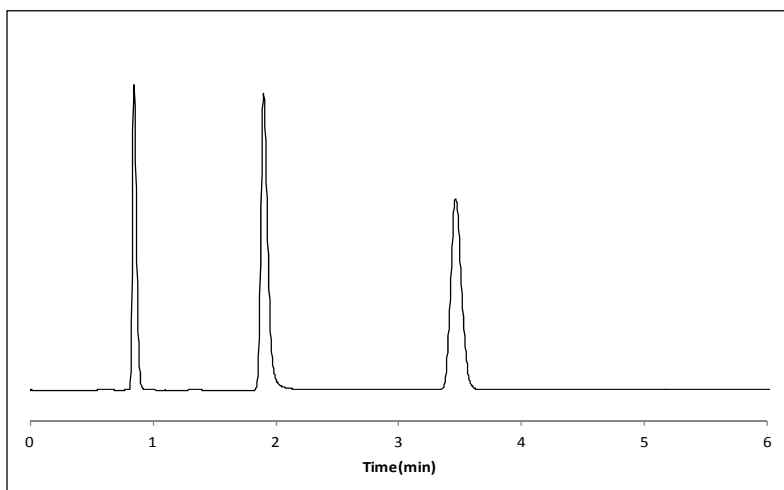
α (Caffeine/Phenol)	0.33
α (Toluene/Benzene)	1.69
α (Methyl benzoate/Toluene)	0.42
α (Triphenylene/o-Terphenyl)	1.60
α (Pyridine/Phenol)	0.39
α (Oxine-Copper/Caffeine)	0.18
α (Formic acid/Acetic acid)	0.25



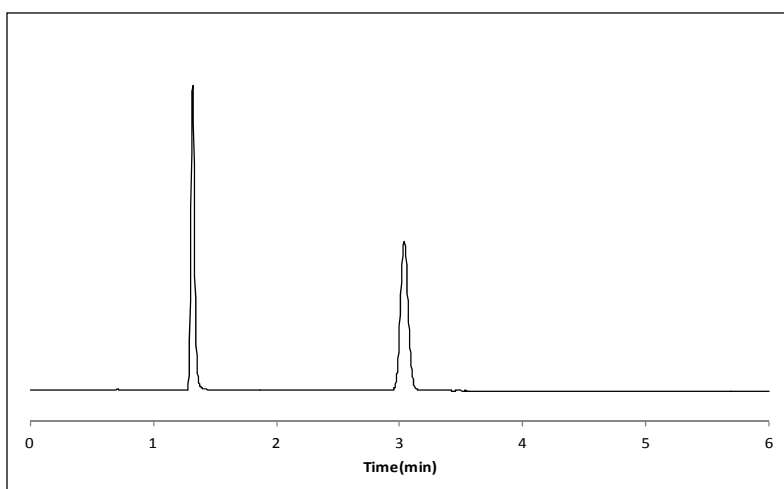
Column size :75x4.6mm I.D.
 Mobile Phase :CH₃OH/Water(70/30)
 Flow rate :1.0ml/min
 Detection :UV 254nm
 Temperature :40°C
 Sample
 1:Uracil
 2:Caffeine
 3:Phenol
 4:Methyl benzoate
 5:Benzene
 6:Toluene



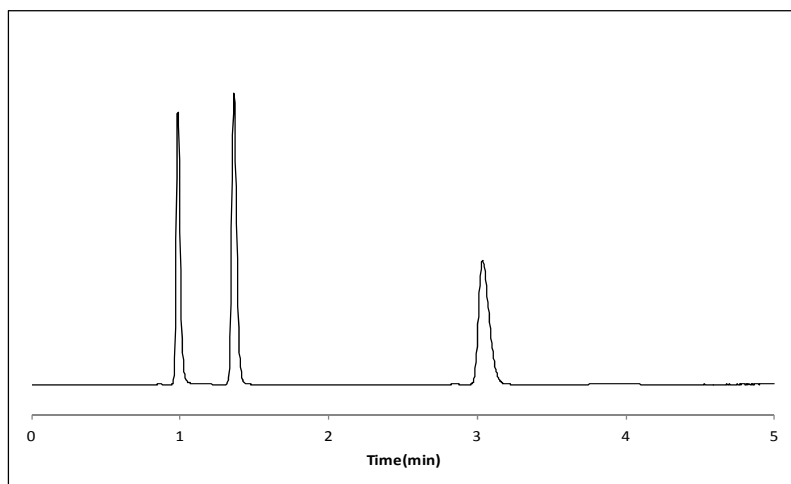
Column size :75x4.6mm I.D.
 Mobile Phase :CH₃OH/Water(80/20)
 Flow rate :1.0ml/min
 Detection :UV 254nm
 Temperature :40°C
 Sample
 1:Uracil
 2:o-Terphenyl
 3:Triphenylene



Column size :75x4.6mm 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 :75x4.6mm 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 :75x4.6mm 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