<< Develosil Column >>

TEST REPORT

Packings	Develosil	ODS-MG, 5 µm		Batch No.	190219
Column size	Inner diameter	4.6 mm		Length	250 mm
End fitting type	NW				
Mfg. No.	16012177C-KY				

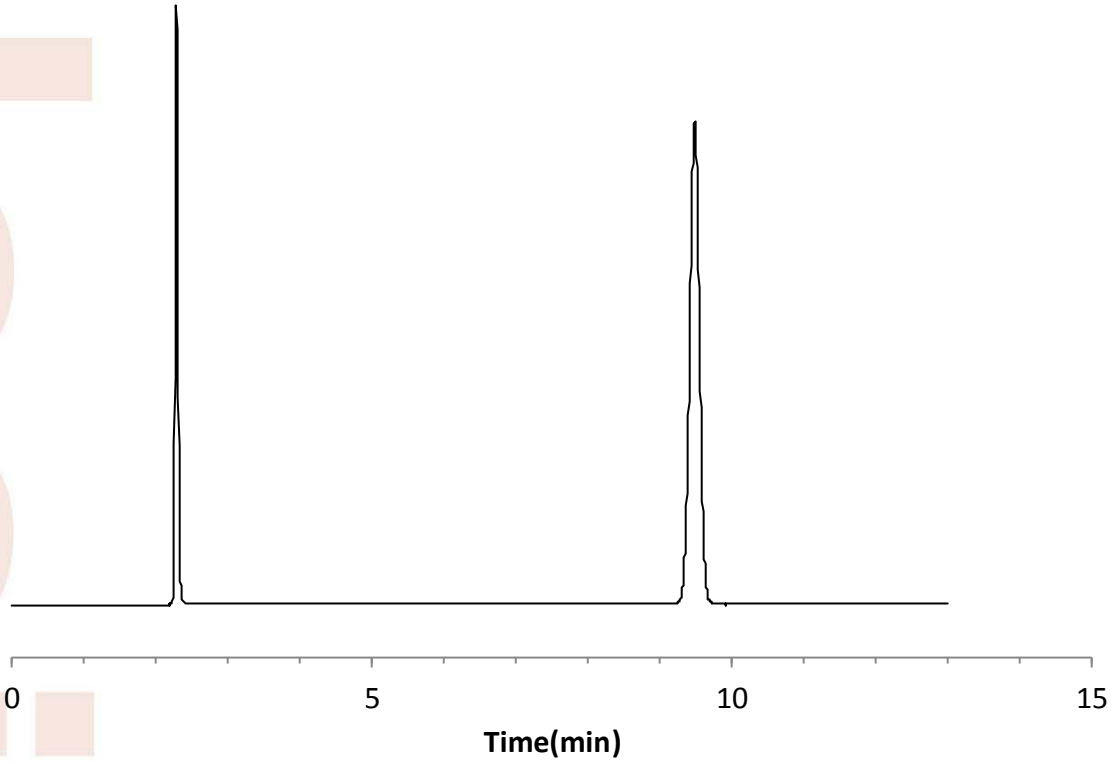
Operating conditions

Mobile phase	: Acetonitrile:water=70:30		
Flow rate	:	1.0	mL/min
Column temp.	:	30	℃
Pressure	:	6.9	MPa
Detection	:	UV 254	nm

Sample (Order of elution)

1 Uracil

2 Naphthalene



Theoretical plate (Last peak) $5.54 \times (t_R/W_{0.5})^2 = 22948$

Asymmetry factor (10% Height of Last peak) = 0.99

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

for Liquid Chromatography Develosil™
NOMURA CHEMICAL CO., LTD.
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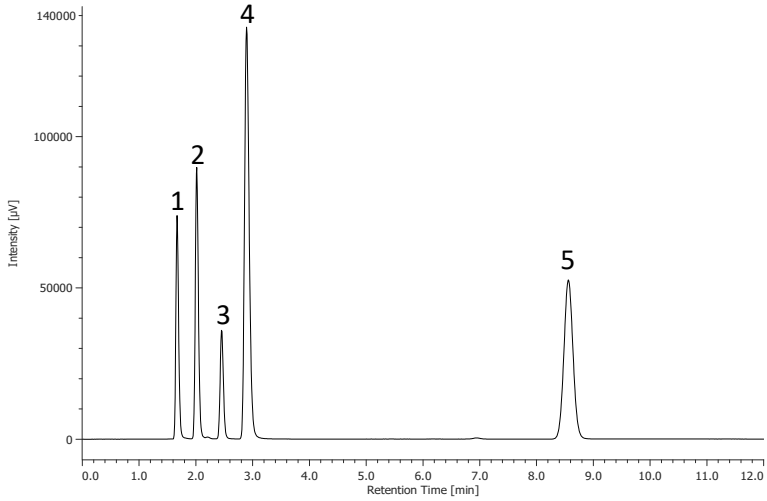
Certificate of Analysis

Develosil® ODS-MG, 5μm Batch# 190219

Analytical Results for Develosil® ODS-MG, 5μm

Analysis of Unbonded Silica Gel		Result
Median Particle Size	[μm]	5.11
Surface Area	[m^2/g]	461
Pore Volume	[mL/g]	1.15
Average Pore Diameter	[nm]	9.67
Analysis of Bonded Silica Gel		
Total Carbon Content	[%]	16.0

Chromatographic Results for Develosil® ODS-MG, 5μm



Sample:
1. Uracil
2. Caffeine
3. Phenol
4. Amitriptyline
5. Naphthalene

Analytical Conditions;
Column: Develosil ODS-MG, 5μm (4.6x150mm)
Mobile phase: Methanol/25mM Ammoniumu Phosphate, pH3.0=70/30
Flow rate: 1.0mL/min
Temperature: 40℃
Detection: UV254nm
Sample: 1.Uracil 2.Caffeine 3.Phenol 4.Amitriptyline 5.Naphthalene
Injection volume: 1.0μL

	Result
k Naphthalene	6.89
Relative retention	
k (Caffeine/Naphthalene)	0.05
k (Phenol/Naphthalene)	0.11
k (Amitriptyline/naphthalene)	0.18
k (Caffeine/Phenole)	0.45
Tailing Factor	
Amitriptyline	1.27

Approved Ikuo Yamamoto Date: 2019.03.13