<< Develosil Column >>

TEST REPORT

Packings	Develosil	ODS-HG, 5 µm	Batch No.	2Y020620
Column size	Inner diameter	4.6 mm	Length	150 mm
End fitting type	NW			
Mfg. No.	20022187C-GE			

Operating conditions

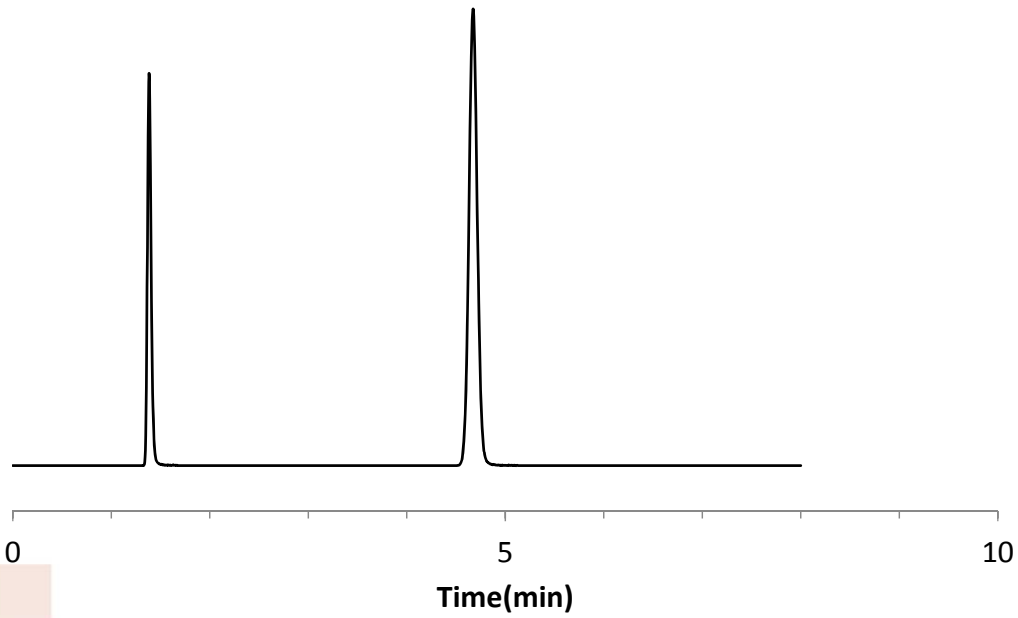
Mobile phase	: Acetonitrile:water=70:30		
Flow rate	:	1.0	mL/min
Column temp.	:	30	℃
Detection	:	UV 254	nm

Sample (Order of elution)

1 Uracil (0.01mg/mL)

2 Naphthalene (0.1mg/mL)

Injection vol. : 1.0 uL



Theoretical plate (Last peak) $5.54 \times (t_R/W_{0.5})^2 = 14329$

Asymmetry factor (10% Height of Last peak) = 1.04

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

for Liquid Chromatography Develosil™
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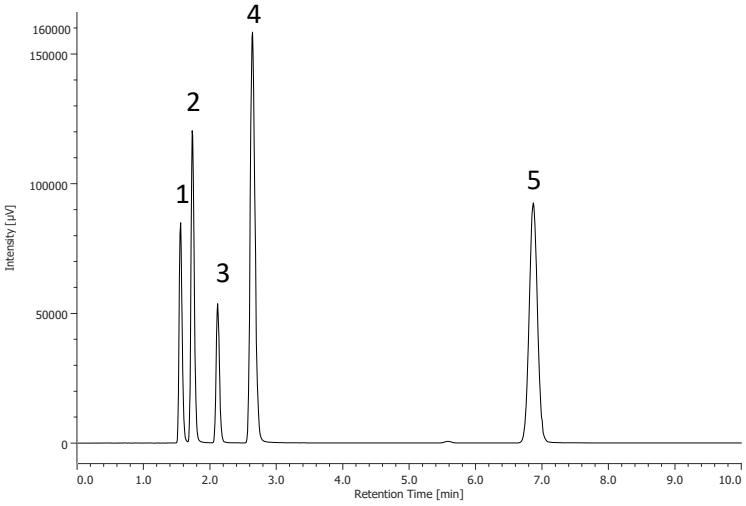
Certificate of Analysis

Develosil® ODS-HG, 5μm Batch# 2Y020620

Analytical Results for Develosil® ODS-HG, 5μm

Analysis of Unbonded Silica Gel		Result
Median Particle Size	[μm]	4.95
Surface Area	[m^2/g]	296
Pore Volume	[mL/g]	1.06
Average Pore Diameter	[nm]	12.3
Analysis of Bonded Silica Gel		
Total Carbon Content	[%]	19.3

Chromatographic Results for Develosil® ODS-HG, 5μm



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

Analytical Conditions;

Column: Develosil ODS-HG, 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	5.31
Relative retention	
k (Caffeine/Naphthalene)	0.03
k (Phenol/Naphthalene)	0.11
k (Amitriptyline/Naphthalene)	0.20
k (Caffeine/Phenol)	0.30
Tailing Factor	
Amitriptyline	1.28

Approved Ikuo Yamamoto Date: 2020.09.11