

<< Develosil Column >>

TEST REPORT

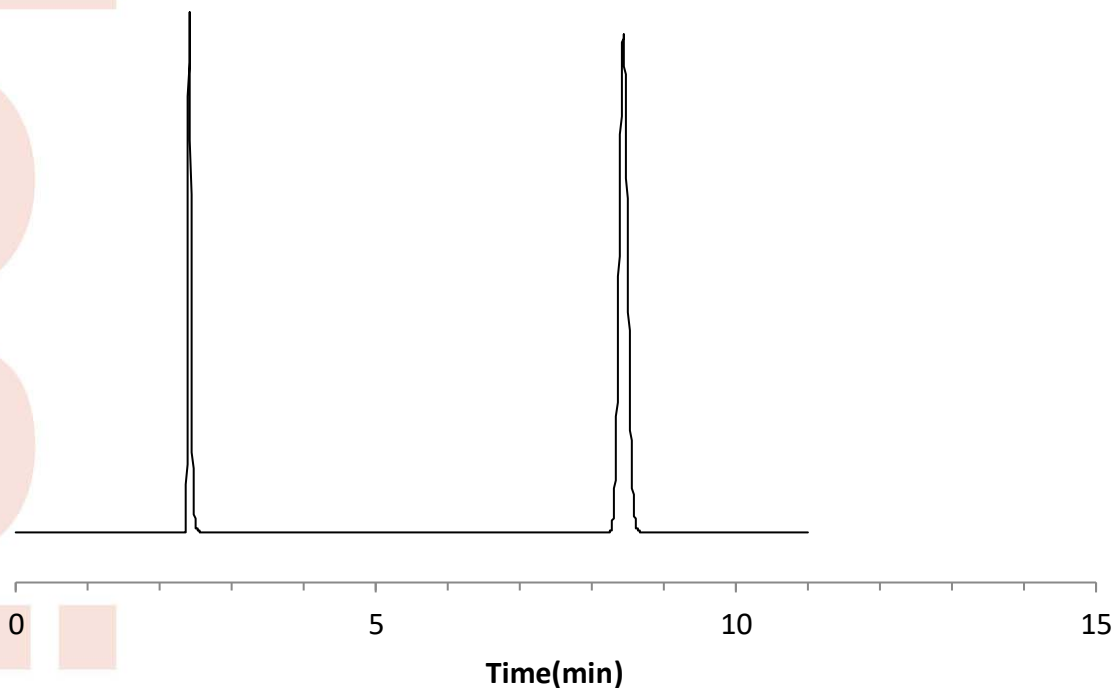
Packings	Develosil	ODS-UG, 5 μm	Batch No.	1Y110719
Column size	Inner diameter	4.6 mm	Length	250 mm
End fitting type	NW			
Mfg. No.	02042089C-SG			

Operating conditions

Mobile phase	:	Acetonitrile:water=70:30
Flow rate	:	1.0 mL/min
Column temp.	:	30 °C
Pressure	:	6.4 MPa
Detection	:	UV 254 nm

Sample (Order of elution)

1	Uracil
2	Naphthalene



Theoretical plate	(Last peak)	$5.54 \times (t_R/W_{0.5})^2 = 22859$
Asymmetry factor	(10% Height of Last peak)	= 1.04
Mobile phase at shipment:	Acetonitrile:water=70:30	

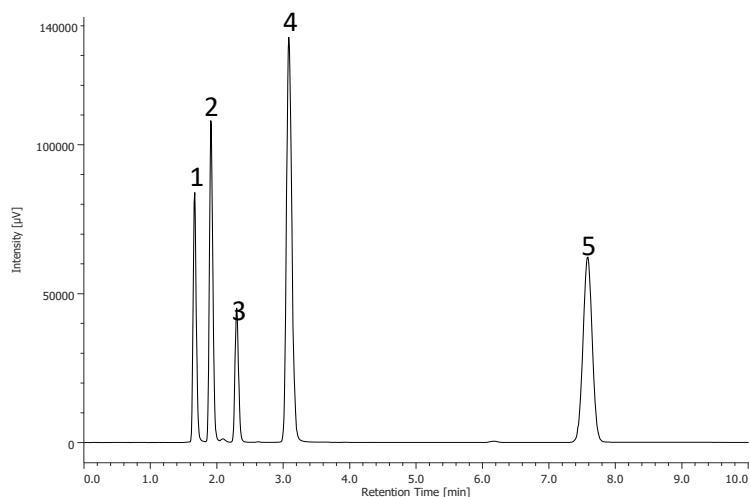
Certificate of Analysis

Develosil® ODS-UG, 5µm Batch# 1Y110719

Analytical Results for Develosil® ODS-UG, 5µm

Analysis of Unbonded Silica Gel		Result
Median Particle Size	[µm]	5.07
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	[%]	16.5

Chromatographic Results for Develosil® ODS-UG, 5µm



Sample:

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

Analytical Conditions;

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

	Result
<i>k</i> Naphthalene	5.91
Relative retention	
<i>k</i> (Caffeine/Naphthalene)	0.04
<i>k</i> (Phenol/Naphthalene)	0.11
<i>k</i> (Amitriptyline/Naphthalene)	0.24
<i>k</i> (Caffeine/Phenol)	0.38
Tailing Factor	
Amitriptyline	1.17

 Approved Ikuo Yamamoto

 Date: 2019.10.16