

<< Develosil Column >>

TEST REPORT

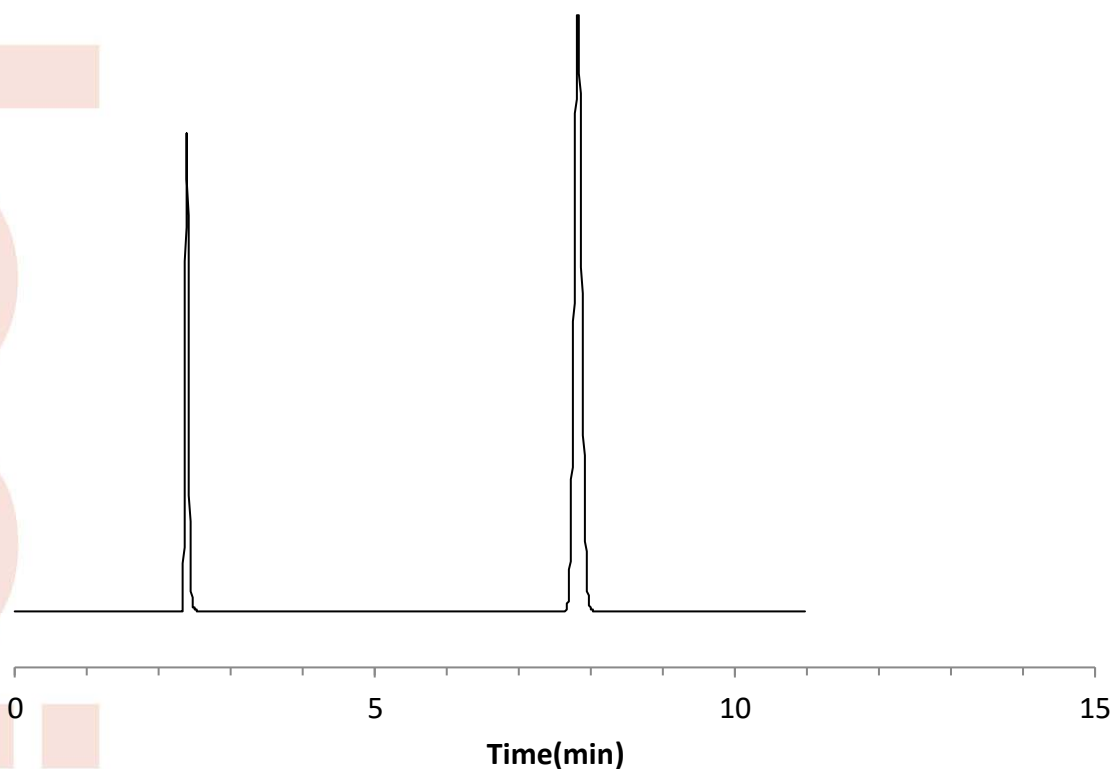
Packings	Develosil	C30-UG, 5 μm	Batch No.	140319
Column size	Inner diameter	4.6 mm	Length	250 mm
End fitting type	NW			
Mfg. No.	13091982C-JU			

Operating conditions

Mobile phase	:	Acetonitrile:water=70:30
Flow rate	:	1.0 mL/min
Column temp.	:	30 °C
Pressure	:	6.0 MPa
Detection	:	UV 254 nm

Sample (Order of elution)

1	Uracil
2	Naphthalene



Theoretical plate	(Last peak)	$5.54 \times (t_R/W_{0.5})^2 = 24108$
Asymmetry factor	(10% Height of Last peak)	= 1.02
Mobile phase at shipment:	Acetonitrile:water=70:30	

Certificate of Analysis



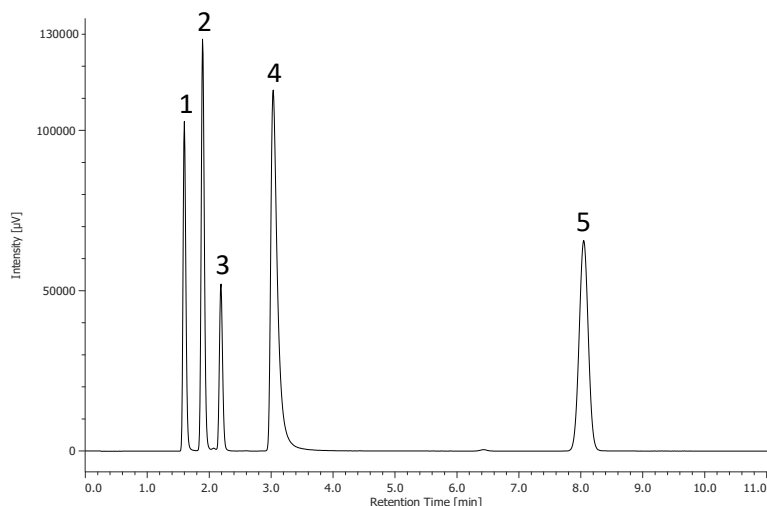
Develosil® C30-UG, 5µm Batch# 140319

Analytical Results for Develosil® C30-UG, 5µm

Analysis of Unbonded Silica Gel		Result
Median Particle Size	[µm]	5.16
Surface Area	[m ² /g]	300
Pore Volume	[mL/g]	1.07
Average Pore Diameter	[nm]	12.1

Analysis of Bonded Silica Gel		Result
Total Carbon Content	[%]	18.4

Chromatographic Results for Develosil® C30-UG, 5µm



Sample:

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

Analytical Conditions;

Column: Develosil C30-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

<i>k</i> Naphthalene	Result
Relative retention	6.44
<i>k</i> (Caffeine/Naphthalene)	0.05
<i>k</i> (Phenol/Naphthalene)	0.09
<i>k</i> (Amitriptyline/naphthalene)	0.22
<i>k</i> (Caffeine/Phenol)	0.49
Tailing Factor	
Amitriptyline	1.89

Approved Ikuo Yamamoto

Date: 2019.04.01