<< Develosil Column >>

TEST REPORT

Packings	Develosil	RPAQUEOUS		Batch No.	140319
Column size	Inner diameter	4.6 mm		Length	250 mm
End fitting type	NW				
Mfg. No.	13091984C-GR				

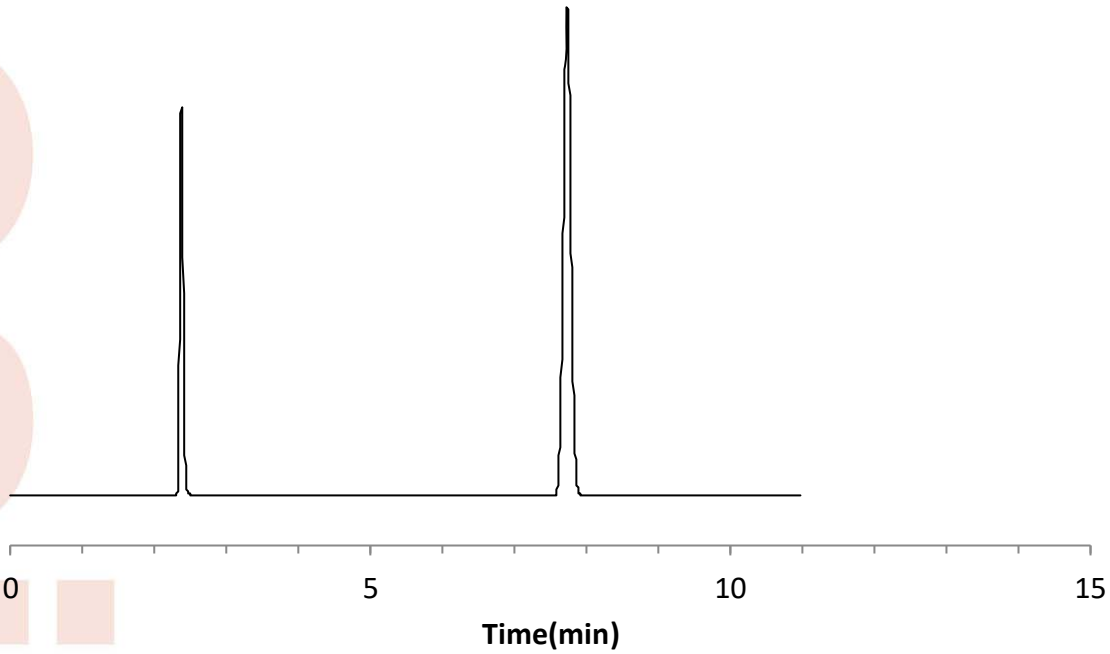
Operating conditions

Mobile phase	: Acetonitrile:water=70:30		
Flow rate	:	1.0	mL/min
Column temp.	:	30	℃
Pressure	:	6.1	MPa
Detection	:	UV 254	nm

Sample (Order of elution)

1 Uracil

2 Naphthalene



Theoretical plate (Last peak) $5.54 \times (t_R/W_{0.5})^2 = 24637$

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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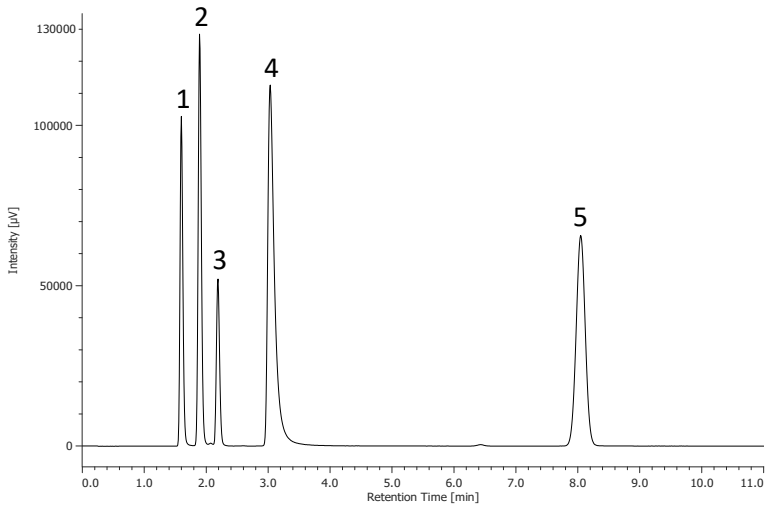
Certificate of Analysis

Develosil® RPAQUEOUS Batch# 140319

Analytical Results for Develosil® RPAQUEOUS

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		
Total Carbon Content	[%]	18.4

Chromatographic Results for Develosil® RPAQUEOUS



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

Analytical Conditions;
Column: Develosil RPAQUEOUS (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	6.44
Relative retention	
k (Caffeine/Naphthalene)	0.05
k (Phenol/Naphthalene)	0.09
k (Amitriptyline/naphthalene)	0.22
k (Caffeine/Phenol)	0.49
Tailing Factor	
Amitriptyline	1.89

Approved Ikuo Yamamoto Date: 2019.04.01