<< Develosil Column >>

TEST REPORT

Packings	Develosil	RPAQUEOUS, 3 µm		Batch No.	1H120520
Column size	Inner diameter	4.6 mm		Length	150 mm
End fitting type	NW				
Mfg. No.	02062150C-LL				

Operating conditions

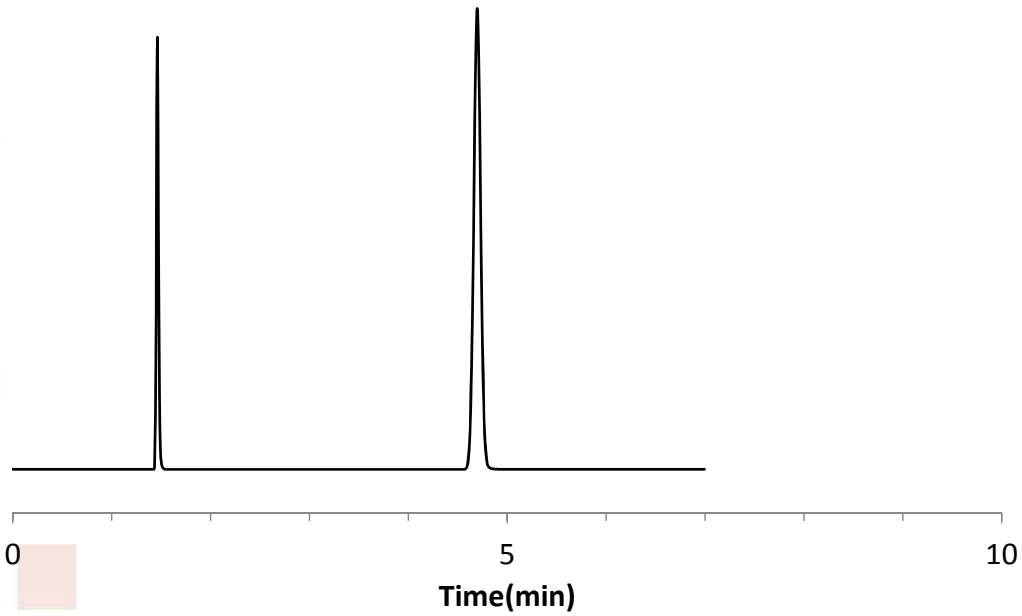
Mobile phase	: Acetonitrile:water=70:30		
Flow rate	:	1.0	mL/min
Column temp.	:	30	℃
Pressure	:	8.5	MPa

Sample (Order of elution)

1 Uracil (0.01mg/mL)

2 Naphthalene (0.1mg/mL)

Injection vol. : 1.0 uL



Theoretical plate (Last peak) $5.54 \times (t_R/W_{0.5})^2 = 20514$

Asymmetry factor (10% Height of Last peak) = 1.00

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

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

Develosil® RPAQUEOUS, 3um Batch# 1H120520

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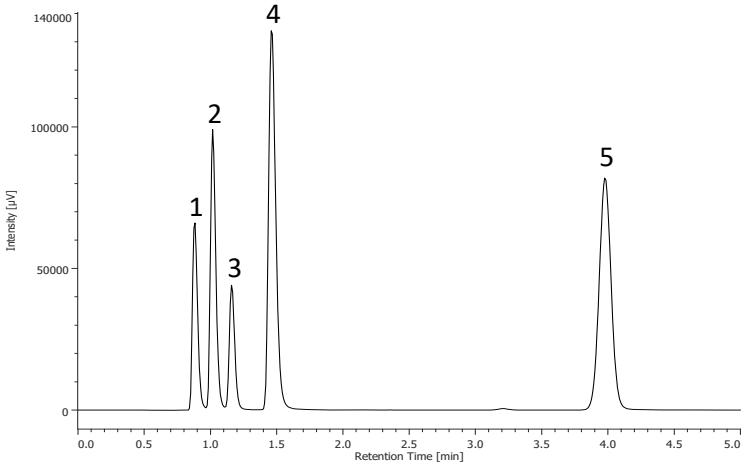
Analytical Results for Develosil® RPAQUEOUS, 3um

Analysis of Unbonded Silica Gel		Result
Median Particle Size	[μm]	3.23
Surface Area	[m^2/g]	308
Pore Volume	[mL/g]	1.13
Average Pore Diameter	[nm]	12.8
Analysis of Bonded Silica Gel		
Total Carbon Content	[%]	17.9

Chromatographic Results for Develosil® RPAQUEOUS, 3um



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

Analytical Conditions;

Column: Develosil RPAQUEOUS, 3um (4.6x75mm)
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: 0.6μL

	Result
k Naphthalene	3.10
Relative retention	
k (Caffeine/Naphthalene)	0.05
k (Phenol/Naphthalene)	0.09
k (Amitriptyline/Naphthalene)	0.19
k (Caffeine/Phenol)	0.50
Tailing Factor	
Amitriptyline	1.43

Approved Ikuo Yamamoto Date: 2020.06.02