<< Develosil Column >>

TEST REPORT

Packings	Develosil	C30-UG, 3 µm		Batch No.	270219
Column size	Inner diameter	2.0 mm		Length	150 mm
End fitting type	NW				
Mfg. No.	04101963C-BH				

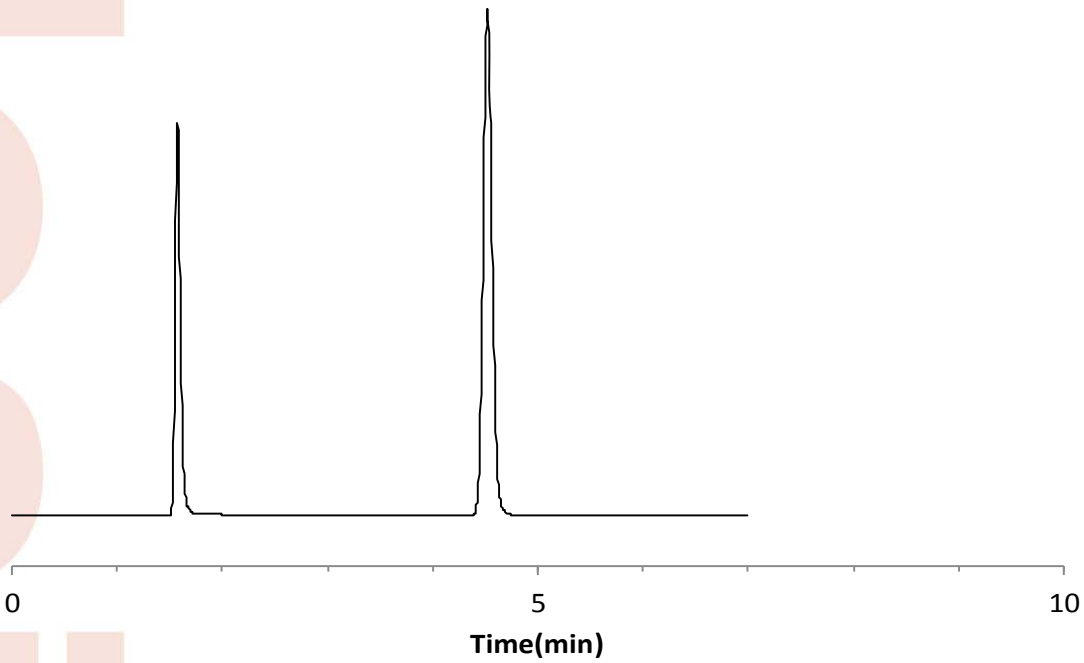
Operating conditions

Mobile phase	: Acetonitrile:water=70:30		
Flow rate	:	0.2	mL/min
Column temp.	:	30	℃
Pressure	:	7.4	MPa
Detection	:	UV 254	nm

Sample (Order of elution)

1 Uracil

2 Naphthalene



Theoretical plate (Last peak) $5.54 \times (t_R/W_{0.5})^2 = 13807$

Asymmetry factor (10% Height of Last peak) = 1.09

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

for Liquid Chromatography Develosil™
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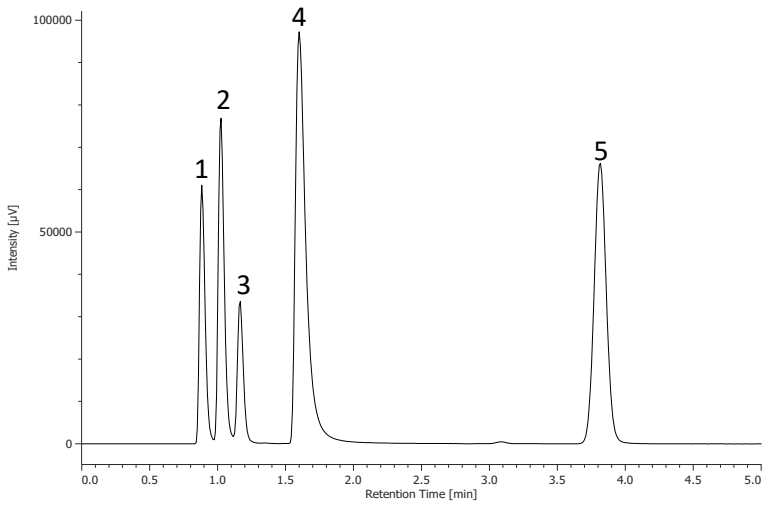
Certificate of Analysis

Develosil® C30-UG, 3μm Batch# 270219

Analytical Results for Develosil® C30-UG, 3μm

Analysis of Unbonded Silica Gel		Result
Median Particle Size	[μm]	3.19
Surface Area	[m^2/g]	306
Pore Volume	[mL/g]	1.11
Average Pore Diameter	[nm]	12.5
Analysis of Bonded Silica Gel		
Total Carbon Content	[%]	17.9

Chromatographic Results for Develosil® C30-UG, 3μm



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

Analytical Conditions;

Column: Develosil C30-UG, 3μm (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	2.94
Relative retention	
k (Caffeine/Naphthalene)	0.05
k (Phenol/Naphthalene)	0.10
k (Amitriptyline/naphthalene)	0.24
k (Caffeine/Phenole)	0.52
Tailing Factor	
Amitriptyline	1.90

Approved Ikuo Yamamoto Date: 2019.03.13