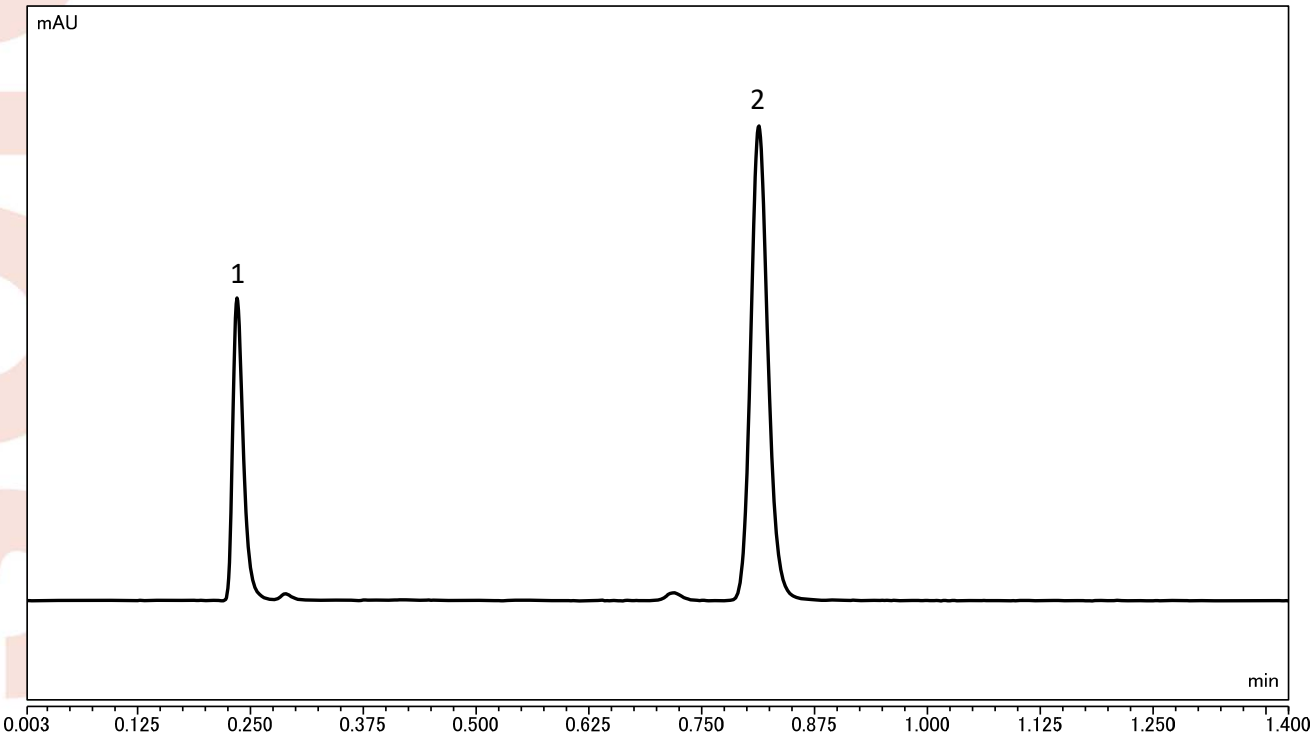
<<Develosil UHPLC Column>>

TEST REPORT

Product Name	Develosil UHPLC C30, 1.6 μm	**Batch #**	010419
Column Size	Inner Diameter: 2.0 mm	length:	50mm
End fitting type	NW		
Mfg. No.	09051940-IX		

Operating conditions

Mobile phase	: Acetonitrile/Water=60/40
Flow rate	: 0.5 mL/min
Columnmn Temp.	: 40 ℃
Pressure	: 231 bar
Detection	: UV254 nm
Sample	1. Uracil (0.01mg/mL)
	2. Naphthalene (0.1mg/mL)
Injection vol.	: 0.16 μL



Analyte	Parameter	Specification	Result
Naphthalene	Theoretical plate	≧8,000	**8,968**
Naphthalene	Asymmetry factor	0.90-1.30	**1.15**

Mobile phase at shipment: Acetonitrile/Water=60/40

for Liquid Chromatography Develosil™
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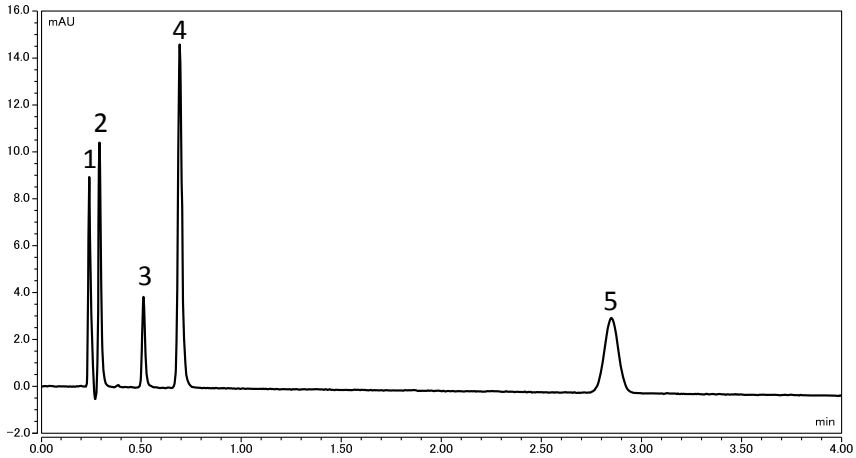
Certificate of Analysis

Develosil® UHPLC C30, 1.6μm　Batch# 010419

Analytical Results for Develosil® UHPLC C30, 1.6μm

Analysis of Unbonded Silica Gel		Result
Median Particle Size	[μm]	1.50
Surface Area	[m^2/g]	339
Pore Volume	[mL/g]	0.94
Average Pore Diameter	[nm]	11.1
Analysis of Bonded Silica Gel		
Total Carbon Content	[%]	13.3

Chromatographic Results for Develosil® UHPLC C30, 1.6μm



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

Analytical Conditions;

Column: Develosil® UHPLC C30, 1.6μm (2.0x50mm)
Mobile phase: 25mM $HCOONH_4$, pH3.0/Acetonitrile=60/40
Flow rate: 0.5mL/min
Temperature: 40℃
Detection: UV254nm
Injection volume: 0.1μL

	Result
k Naphthalene	2.608
Relative retention	
k (Caffeine/Naphthalene)	0.020
k (Phenol/Naphthalene)	0.104
k (Amitriptyline/Naphthalene)	0.173
k (Caffeine/Phenol)	0.188
Tailing Factor	
Amitriptyline	1.29

Approved Satoshi Horikiri　　Date: 2019.04.10