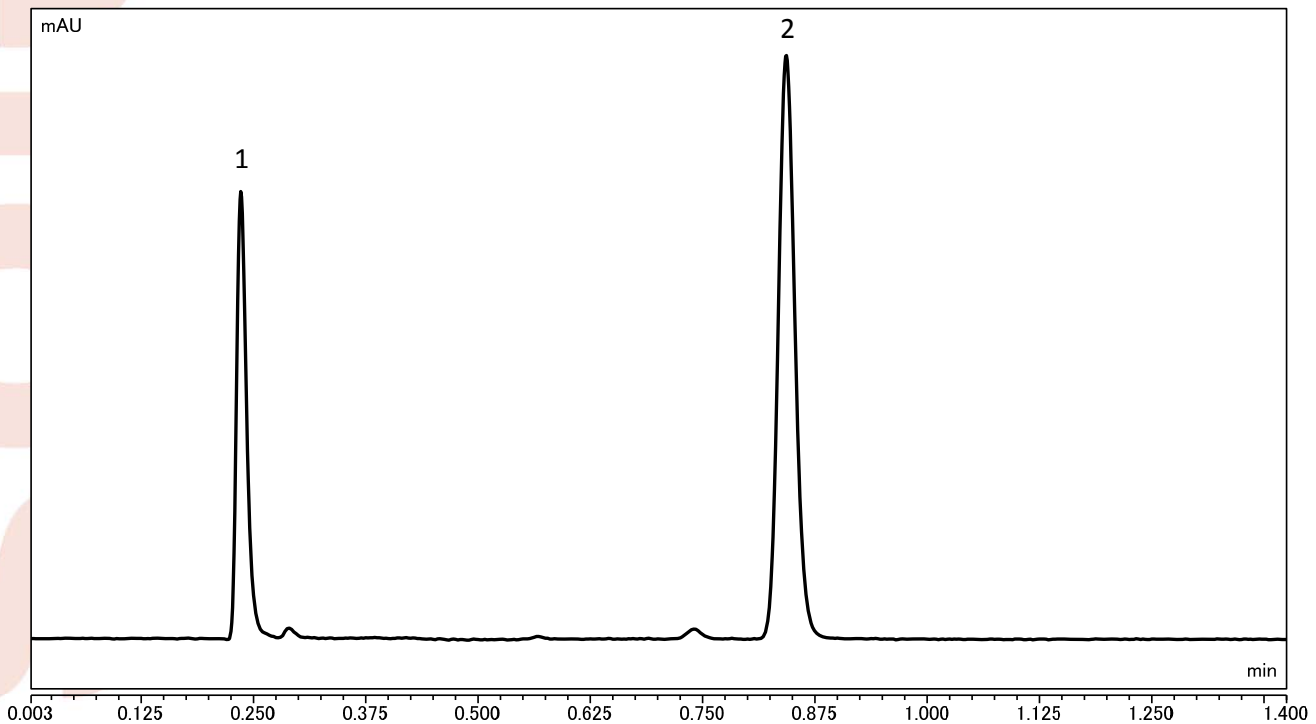


TEST REPORT

Product Name	Develosil FlexFire C30, 1.6 μ m	Batch #	#1F250319
Column Size	Inner Diameter: 2.0 mm	length:	50 mm
End fitting type	NW		
Mfg. No.	05101941C-ZB		

Operating conditions

Mobile phase	: Acetonitrile/Water=60/40
Flow rate	: 0.5 mL/min
Column Temp.	: 40 $^{\circ}$ C
Pressure	: 207 bar
Detection	: UV254 nm
Sample	1. Uracil (0.01mg/mL) 2. Naphthalene (0.1mg/mL)
Injection vol.	: 0.16 μ L



Analyte	Parameter	Specification	Result
Naphthalene	Theoretical plate	$\geq 8,000$	10,115
Naphthalene	Asymmetry factor	0.90-1.30	1.12

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

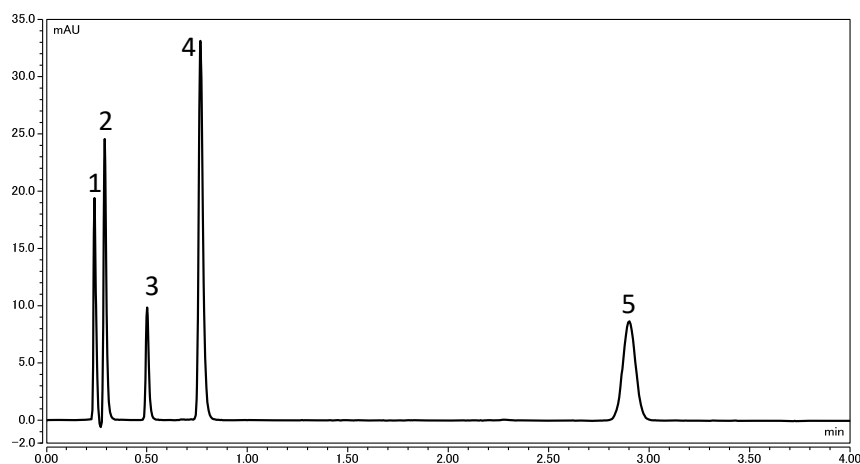
Certificate of Analysis

Develosil® FlexFire C30, 1.6µm Batch# 1F250319

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	[%]	11.3

Chromatographic Results for Develosil® FlexFire C30, 1.6µm



Sample:

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

Analytical Conditions;

Column: Develosil® FlexFire C30, 1.6µm (2.0x50mm)
 Mobile phase: 25mM HCOONH₄, pH3.0/Acetonitrile=60/40
 Flow rate: 0.5mL/min
 Temperature: 40°C
 Detection: UV254nm
 Injection volume: 0.16µL

<i>k</i> Naphthalene	Result
	2.901
Relative retention	
<i>k</i> (Caffeine/Naphthalene)	0.018
<i>k</i> (Phenol/Naphthalene)	0.090
<i>k</i> (Amitriptyline/Naphthalene)	0.182
<i>k</i> (Caffeine/Phenol)	0.195
Tailing Factor	
Amitriptyline	1.36

Approved Satoshi Horikiri

Date: 2019.09.02