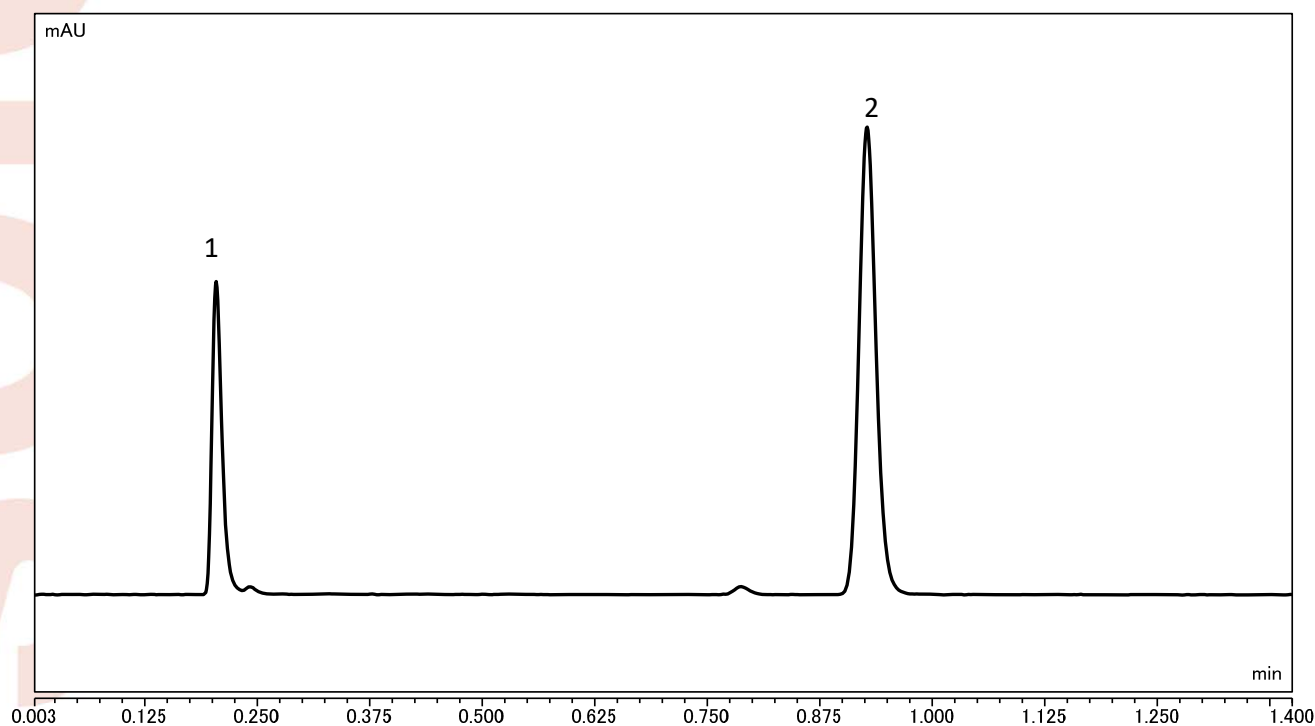


TEST REPORT

Product Name Develosil UHPLC C18, 1.6 μ m **Batch #** 260319
Column Size Inner Diameter: 2.0 mm **length:** 50mm
End fitting type NW
Mfg. No. 090519S1-RR

Operating conditions

Mobile phase : Acetonitrile/Water=60/40
Flow rate : 0.5 mL/min
Column Temp. : 40 $^{\circ}$ C
Pressure : 239 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	$\geq 8,000$	11,578
Naphthalene	Asymmetry factor	0.90-1.30	1.12

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

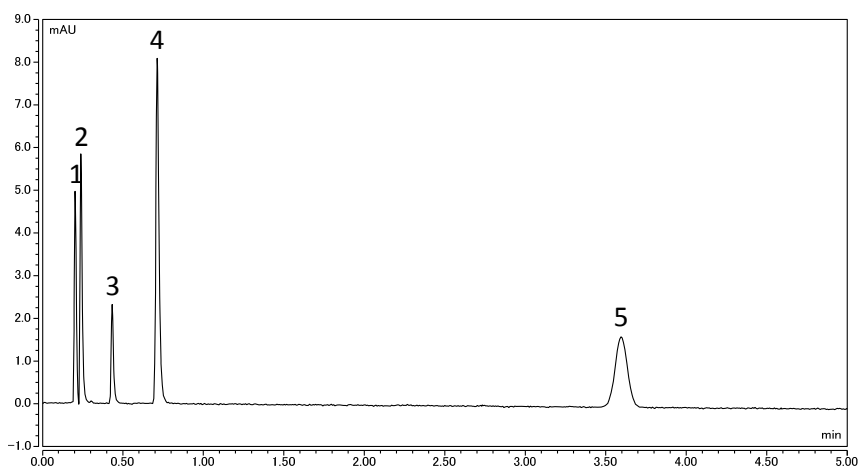
Certificate of Analysis

Develosil[®] UHPLC C18, 1.6 μ m Batch# 260319

Analytical Results for Develosil[®] UHPLC C18, 1.6 μ m

Analysis of Unbonded Silica Gel		Result
Median Particle Size	[μ m]	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	[%]	17.4

Chromatographic Results for Develosil[®] UHPLC C18, 1.6 μ m



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

Analytical Conditions;

Column: Develosil[®] UHPLC C18, 1.6 μ m (2.0x50mm)
 Mobile phase: 25mM HCOONH₄, pH3.0/Acetonitrile=60/40
 Flow rate: 0.5mL/min
 Temperature: 40°C
 Detection: UV254nm
 Injection volume: 0.1 μ L

<i>k</i> Naphthalene	Result
	3.393
Relative retention	
<i>k</i> (Caffeine/Naphthalene)	0.011
<i>k</i> (Phenol/Naphthalene)	0.068
<i>k</i> (Amitriptyline/Naphthalene)	0.150
<i>k</i> (Caffeine/Phenol)	0.157
Tailing Factor	
Amitriptyline	1.42

Approved Ikuo Yamamoto

Date: 2019.04.04