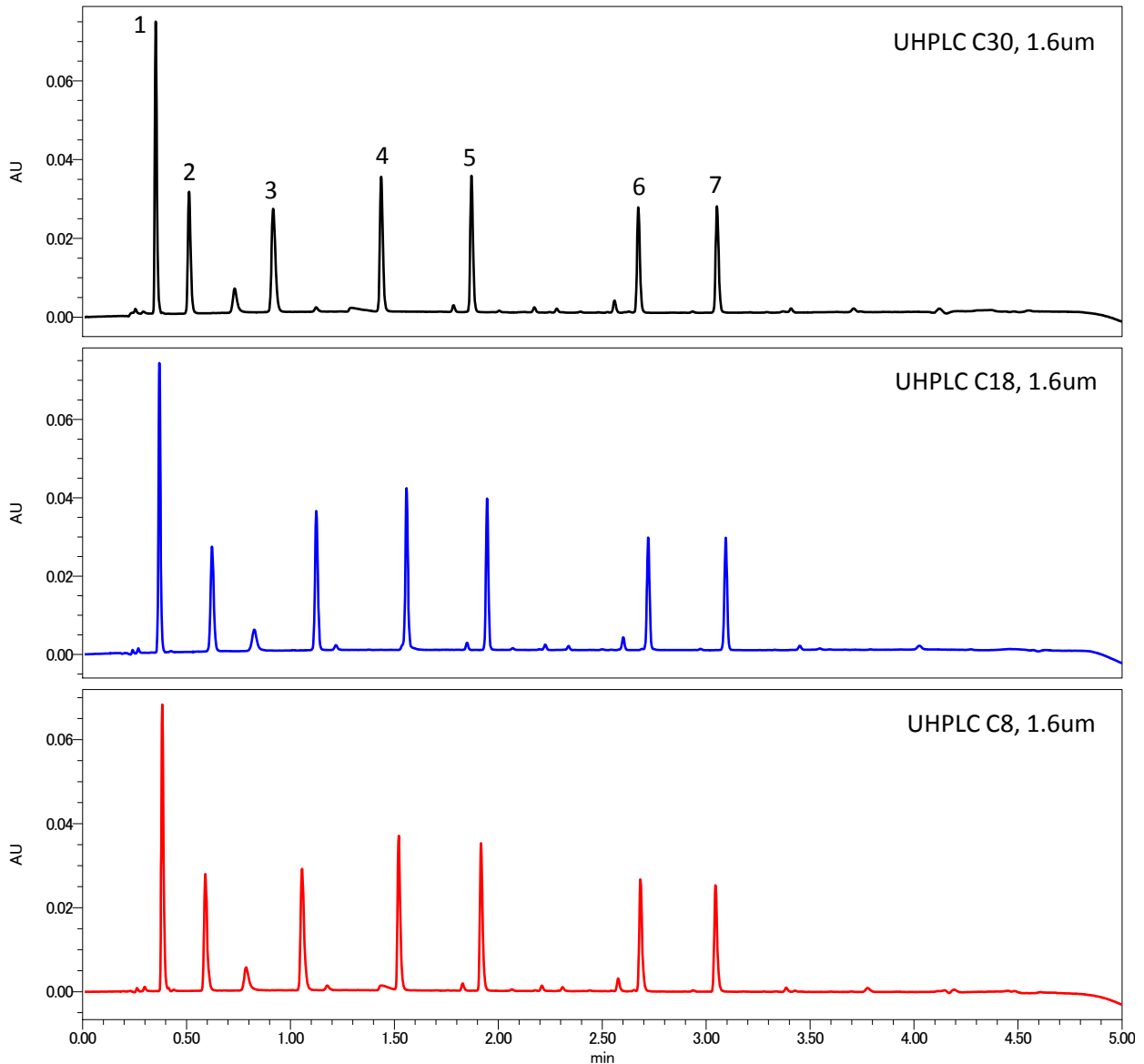


Develosil® Application Data No.111

“Analysis of Dicarboxylic acids”

for UHPLC

This application data transferred the condition of application data No. 108 to UHPLC method.



Analytical conditions;

Column: Develosil UHPLC C30, 1.6 μ m (2.0x50mm)

Develosil UHPLC C18, 1.6 μ m (2.0x50mm)

Develosil UHPLC C8, 1.6 μ m (2.0x50mm)

Mobile phase: A) Water+0.1% H_3PO_4

B) Acetonitrile+0.1% H_3PO_4

Gradient:

HPLC				
min	mL/min	%A	%B	Curve
0.0	1	100	0	6
25.0	1	50	50	6
30.0	1	50	50	6
30.1	1	100	0	6

UHPLC				
min	mL/min	%A	%B	Curve
0.0	0.5	100	0	6
3.47	0.5	50	50	6
4.17	0.5	50	50	6
4.18	0.5	100	0	6

Temperature: 40°C

Sample: 1.Malonic acid (5.17mg/mL) 5.Primelic acid (4.66mg/mL)

2.Succinic acid (4.64mg/mL) 6.Azelaic acid (5.02mg/mL)

3.Glutaric acid (4.77mg/mL) 4.Sebacic acid (4.92mg/mL)

4.Adipic acid (4.75mg/mL)

Injection volume: 0.1 μ L

System: Waters AQUITY UPLC H-Class Plus

