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Separation of highly polar compounds by reverse phase column

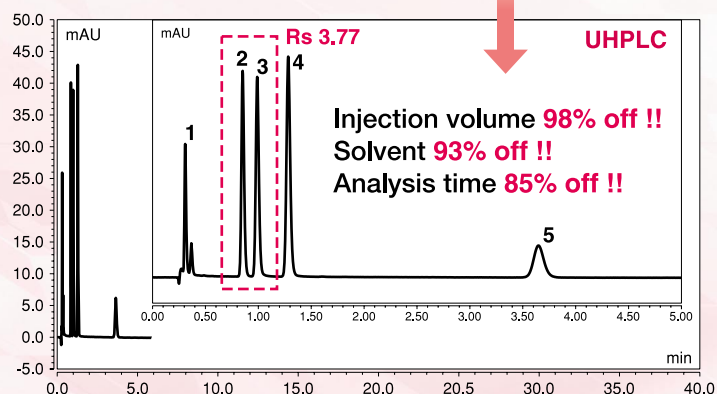
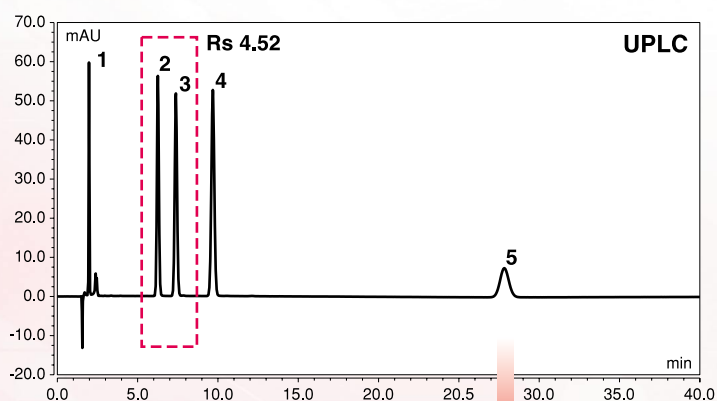
HSR UHPLC

Develosil®

True UHPLC realized with maximum column efficiency

- The strictly controlled particles are appropriately transferred to 5 μ m, 3 μ m, 2 μ m.
- Ensure high durability by our unique bonding and filling technology
- Maximized high column efficiency realizes low cost by reducing solvent usage

[Superior resolution and retention of HSR AQ C18 for UHPLC]



■ UHPLC method transfer of Purine Derivative

Conditions:

Column : Develosil HSR AQ C18, 5 μ m (4.6x150mm)
Develosil HSR AQ C18, 2 μ m (2.0x50mm)

Mobile phase : 0.1%TFA

Flow rate : 1.0mL/min (HPLC)

0.474mL/min (UHPLC)

Temperature : 30°C

Detection : UV220nm

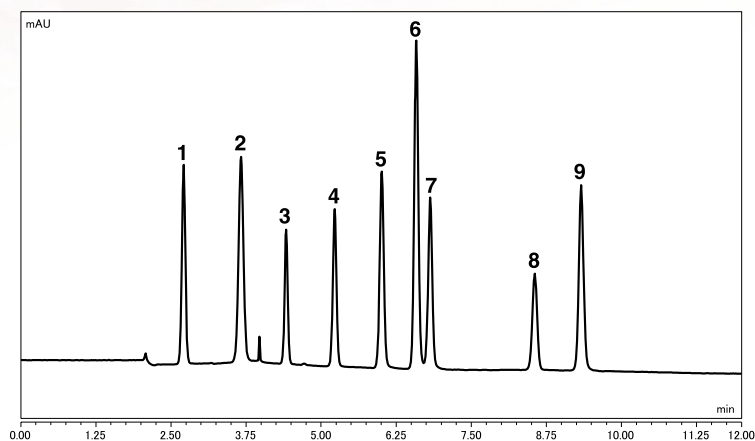
Sample : 1. Allantoin
2. Hypoxanthine
3. Uric acid
4. Xanthine
5. Inosine

Injection volume : 2.0 μ L (HPLC)

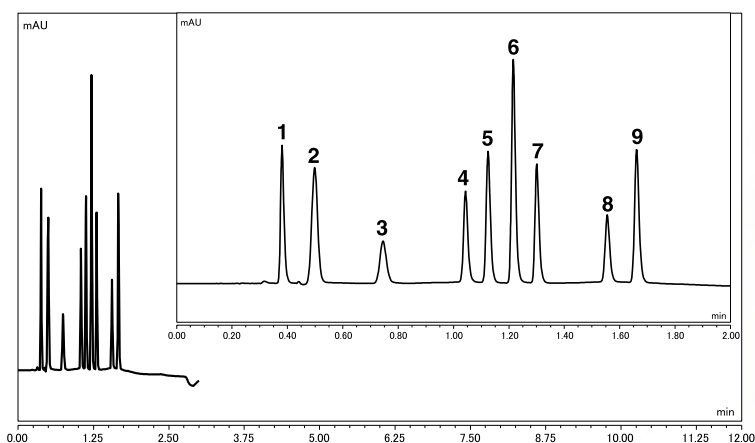
0.16 μ L (UHPLC)

Gradient elution with organic solvent can further shorten it. Excellent isolation and retention will give great results to UHPLC method transfer.

[UHPLC Gradient Method]



UHPLC Transfer!!



The choice of column length is also important for method transfer.

■UHPLC method transfer of Nucleic acid related compounds

Conditions;

Column : **Develosil HSR AQ C18, 5um (4.6x150mm)**
Develosil HSR AQ C18, 2um (2.0x50mm)

Mobile phase : A) 50mM Ammonium buffer, pH7.0
 B) Acetonitrile

Flow rate : 1.0mL/min (HPLC)
0.474mL/min (UHPLC)

Temperature : 40°C

Detection : UV254nm

Sample : 1.Cytosine 2.Uracil 3.Citidine 4.Uridine
 5.Thymine 6.Adenine 7.Guanine 8.Thymidine

Injection volume : 2.0uL (HPLC)

0.16uL (UHPLC)

Mixer volume : 10uL

Gradient:

5um

min	%B	Curve
0.00	0	5
12.0	12	5
15.0	12	5
15.1	0	5

2um

T(min)	%B	Curve
0.00	0	5
1.76	25	5
2.20	25	5
2.15	0	5



■Price List

Develosil HSR AQ C18,2um

P/N	Product Name	Particle Size (um)	Pore Size (Å)	Inner Diameter (mm)	Length (mm)	Price (yen)
73-220050W	HSR AQ C18-2	2.0	80	2.0	50	60,000
73-220075W					75	65,000
73-220100W					100	70,000
73-220150W					150	80,000
73-220250W					250	110,000

[CONTACT us]



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