Develosil® FlexFire HILIC

For improved retention and separation of highly polar compounds!!

FlexFire HILIC is the simplest and simplest method to achieve retention and separation of highly polar compounds using a silica gel substrate itself as a HILIC column. Since HILIC constructs a method rich in organic solvent composition, it can be expected to improve detection sensitivity in LC/MS. By adding 1.6 μm, which was not available in the conventional lineup, ultra-fast analysis will save time and save solvent.

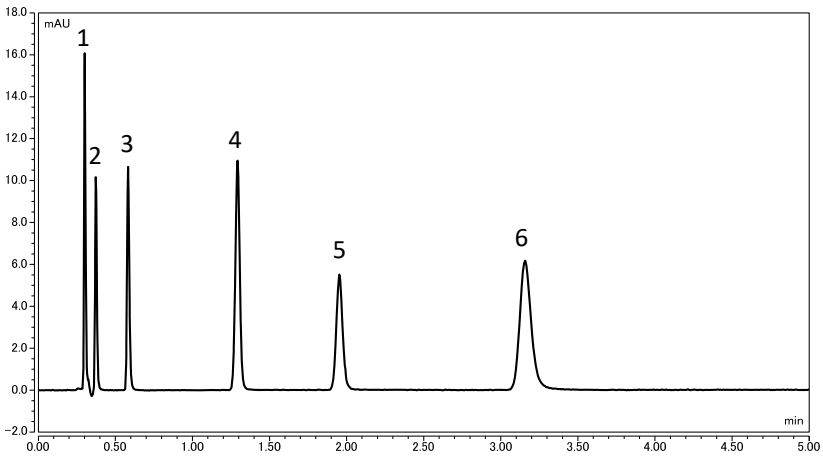
In addition, analysis in normal phase mode with a non-aqueous solvent is also possible, and it is possible to obtain behavior that is not found in reversed-phase columns.

Spec ofFlexFire HILIC

	FlexFire HILIC
Particle size	1.6μm, 2.6μm, 5μm
Chemistry	—
Surface area	340m^2/g
Pore volume	1.0mL/g
Pore diametter	11nm
Carbon	—
End-cap	なし
pH	pH1-5
Temperature	～60℃
Max pressure	1.6μm: 800bar (=80Mpa=11,603psi)
	2.6μm: 600bar (=60Mpa=8,702psi)
	5μm: 300bar (=30Mpa=4,351psi)

FlexFire HILIC can be applied to methods that do not use ion-pair reagents, so good conditions can be established for LC/MS.

Furthermore, with 1.6μm particles, you can reach your goals in just a few minutes.



Conditions;

Column: Develosil FlexFire HILIC, 1.6μm (2.0x50mm)

Mobile phase: Acetonitrile/10mM $HCOONH_4$, pH3.0=90/10

Flow rate: 0.5mL/min

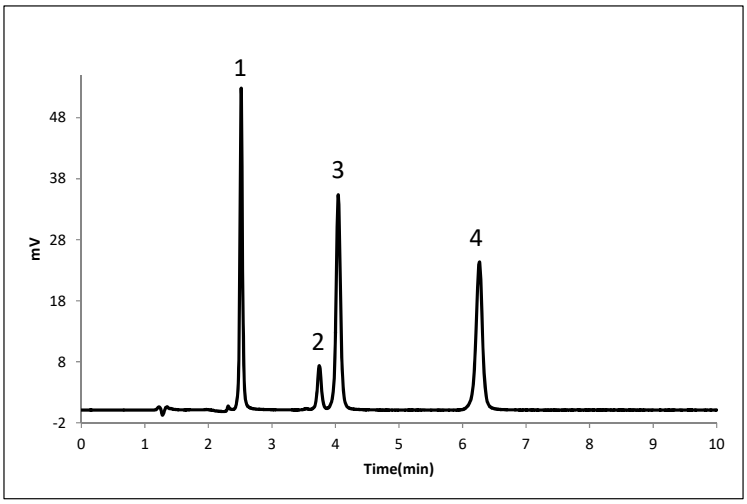
Detectiion: UV260nm

Temperature: 40℃

Sample: 1. Acetoaminophene (0.9μg/mL)
2. Uracil(8.0μg/mL)
3. Bromehexine (48μg/mL)
4. Paroxetine (0.5mg/mL)
5. Phenylephrine (1.1mg/mL)
6. Metformine (0.24mg/mL)

Injection volume: 0.16uL

Analysis of tocopherol isomers (normal phase mode)



Conditions;

Column: Develosil FlexFire HILIC 2.6μm (2.0x150mm)

Mobile phase: n-Hexane/IPA/CH_3COOH=989/6/5

Flow rate: 0.3mL/min

Temperature: 30℃

Detection: UV295nm

Sample: 1.α-Tocophelol
2.β-Tocophelol
3.γ-Tocophelol
4.δ-Tocophelol

Injection volume: 1.0μL

When switching to a normal phase solvent, it is necessary to pass ethanol or propanol as an intermediate solvent and then switch to the target mobile phase.

Order information

Product	Particle	Size (i.d.XL)	Sutainless	Metal-Free
FlexFire HILIC	1.6μm	2.0x35mm	305-I20035W	305-I20035MFW
		2.0x50mm	305-I20050W	305-I20050MFW
		2.0x75mm	305-I20075W	305-I20075MFW
		2.0x100mm	305-I20100W	305-I20100MFW
		2.0x150mm	305-I20150W	305-I20150MFW
		2.0x250mm	–	–
	2.6μm	2.0x35mm	305-L20035W	305-L20035MFW
		2.0x50mm	305-L20050W	305-L20050MFW
		2.0x75mm	305-L20075W	305-L20075MFW
		2.0x100mm	305-L20100W	305-L20100MFW
		2.0x150mm	305-L20150W	305-L20150MFW
		2.0x250mm	305-L20250W	305-L20250MFW
	5μm	2.0x35mm	305-520035W	305-520035MFW
		2.0x50mm	305-520050W	305-520050MFW
		2.0x75mm	305-520075W	305-520075MFW
		2.0x100mm	305-520100W	305-520100MFW
		2.0x150mm	305-520150W	305-520150MFW
		2.0x250mm	305-520250W	305-520250MFW

■お問い合わせ/Contact us

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