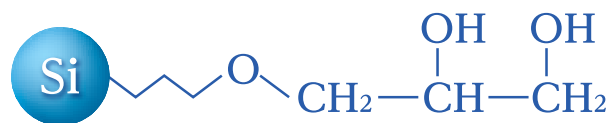


Inertsil[®] HILIC

Physical Properties

- Silica : 3 Series High Purity Silica Gel
- Particle Size : 3 μm , 5 μm
- Surface Area : 450 m^2/g
- Pore Size : 100 Å (10 nm)
- Pore Volume : 1.05 mL/g
- Bonded Phase : Diol Groups (Dihydroxypropyl Groups)
- End-capping : None
- Carbon Loading : 20 %
- USP Code : L20
- pH Range : 2 ~ 7.5



HILIC is, abbreviated name for Hydrophilic Interaction Chromatography, and it was developed as an alternative to reversed phase chromatography for highly polar compounds. (figure1.) Inertsil HILIC is the column which chemically bonded with diol group, and it provides excellent peak shape for neutral and basic compounds. In HILIC mode, generally when organic concentration is raised, it shows a strong retention (figure 2.). Moreover, it can get more stable analysis by adding basic solvent to the eluate, such as ammonium acetate.

Figure 1 : Separation mode from Reverse phase to HILIC

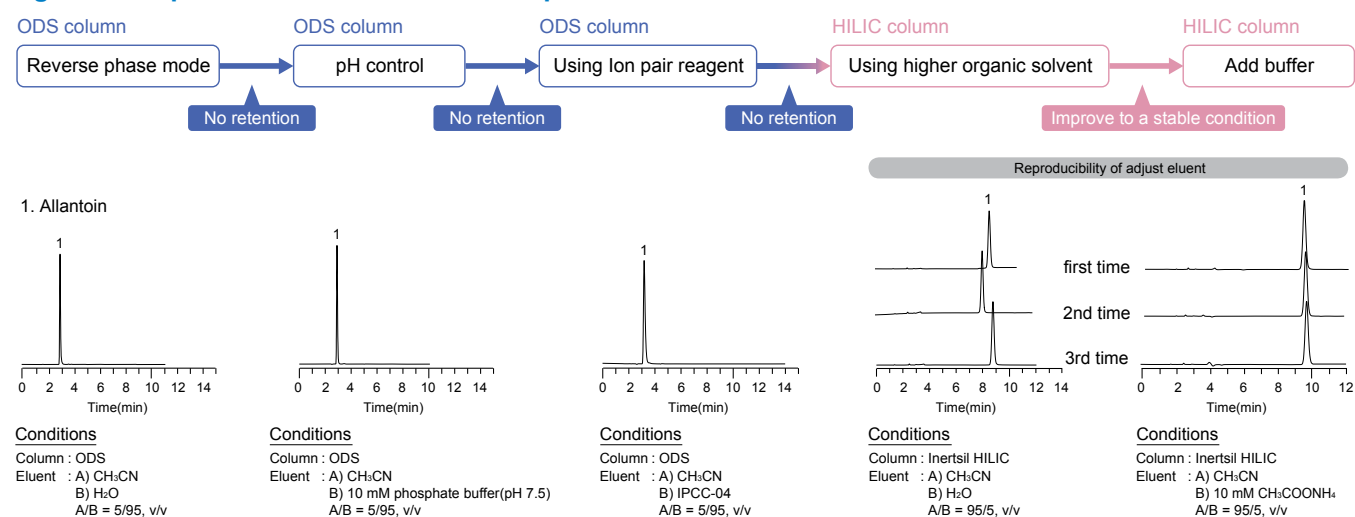
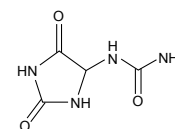
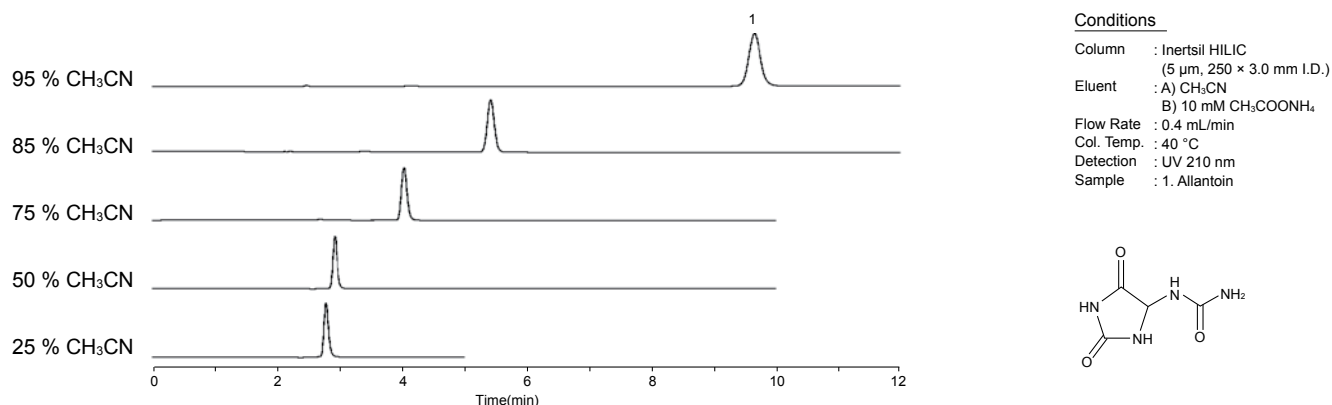


Figure 2 : Correlation between retention time and the concentration of CH₃CN in mobile phase



Analytical Columns

Particle Size: 3 µm	Length \ I.D. (mm)	1.0	1.5		
	33	5020-86731	5020-86741		
	50	5020-86732	5020-86742		
	75	5020-86733	5020-86743		
	100	5020-86734	5020-86744		
	150	5020-86735	5020-86745		
	250	5020-86736	5020-86746		
	Length \ I.D. (mm)	2.1	3.0	4.0	4.6
	33	5020-07761	5020-07771	5020-07781	5020-07791
	50	5020-07762	5020-07772	5020-07782	5020-07792
	75	5020-07763	5020-07773	5020-07783	5020-07793
	100	5020-07764	5020-07774	5020-07784	5020-07794
	150	5020-07765	5020-07775	5020-07785	5020-07795
	250	5020-07766	5020-07776	5020-07786	5020-07796
	Particle Size: 5 µm	Length \ I.D. (mm)	1.0	1.5	
33		5020-86711	5020-86721		
50		5020-86712	5020-86722		
75		5020-86713	5020-86723		
100		5020-86714	5020-86724		
150		5020-86715	5020-86725		
250		5020-86716	5020-86726		
Length \ I.D. (mm)		2.1	3.0	4.0	4.6
33		5020-07701	5020-07711	5020-07721	5020-07731
50		5020-07702	5020-07712	5020-07722	5020-07732
75		5020-07703	5020-07713	5020-07723	5020-07733
100		5020-07704	5020-07714	5020-07724	5020-07734
150		5020-07705	5020-07715	5020-07725	5020-07735
250		5020-07706	5020-07716	5020-07726	5020-07736

* End-fittings are 1/16" Waters-compatible.

* For maximum operating pressure information, please refer to page 46.

Cartridge Guard Column E

I.D. of the Analytical Column Applicable (mm)	Length (mm)	I.D. (mm)	Replacement Cartridge E Guard Column (2 EA.)		Cartridge E Holder / Cartridge Set (2 Cartridge E Guard Columns & 1 Holder)	
			Particle Size		Particle Size	
			3 µm	5 µm	3 µm	5 µm
1.0	10	1.0	5020-19225	5020-19224	5020-19275	5020-19274
1.5, 2.1		1.5	5020-19325	5020-19324	5020-19375	5020-19374
2.1, 3.0		3.0	5020-19125	5020-19124	5020-19175	5020-19174
4.0, 4.6		4.0	5020-19025	5020-19024	5020-19075	5020-19074
2.1, 3.0	20	3.0	5020-19525	5020-19524	5020-19575	5020-19574
4.0, 4.6		4.0	5020-19425	5020-19424	5020-19475	5020-19474
Holder for Cartridge Guard Column E				For 10 mm Length		5020-08500
				For 20 mm Length		5020-08550

* End-fittings are 1/16" Waters-compatible.

* For maximum operating pressure information, please refer to page 46.

Reversed Phase Columns

HILIC Columns

Normal Phase Columns

SEC Columns

Ion Exchange Columns

Application Specific Columns

Guard Columns

Preparative Columns

Capillary Columns

Applications

Cat. No. Index