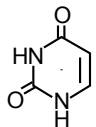


Nucleic acid bases and Nucleoside analysis on HILIC

~ Columns and conditions ~

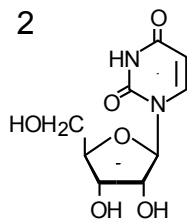
Column	: [YMC Products]		
	YMC-Triart Diol-HILIC	(5 μ m, 12 nm)	150 X 3.0 mml.D.
	YMC-Pack Diol-NP	(5 μ m, 12 nm)	150 X 3.0 mml.D.
	[Competitors' Products]		
	Luna HILIC	(5 μ m, 20 nm)	150 X 3.0 mml.D.
	XBridge HILIC	(3.5 μ m, 13 nm)	150 X 4.6 mml.D.
	XBridge Amide	(3.5 μ m, 13 nm)	150 X 4.6 mml.D.
	TSK-GEL Amide-80	(3 μ m, 10 nm)	150 X 4.6 mml.D.
	ZIC HILIC	(5 μ m, 20 nm)	150 X 2.1 mml.D.
Eluent	: 100 mM CH ₃ COONH ₄ /acetonitrile (10/90)		
Flow rate	: 1.0 mL/min for 4.6 mml.D., 0.425 mL/min for 3.0 mml.D., 0.2 mL/min for 2.1 mml.D.		
Temperature	: 30°C		
Detection	: UV at 254 nm		
Injection	: 5 μ L for 4.6 mml.D., 2 μ L for 3.0 mml.D., 1 μ L for 2.1 mml.D. (5 ~ 10 μ g/mL)		

1



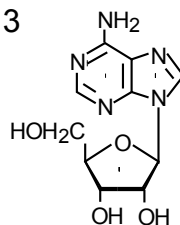
Uracil

2



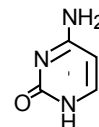
Uridine

3



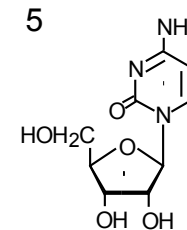
Adenosine

4



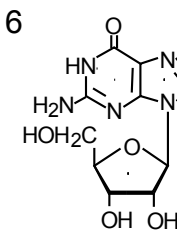
Cytosine

5



Cytidine

6



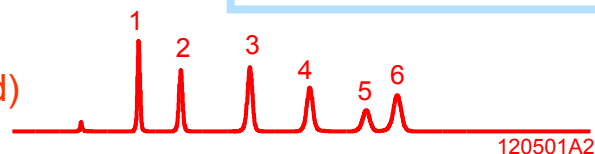
Guanosine

Nucleic acid bases and Nucleoside analysis on HILIC

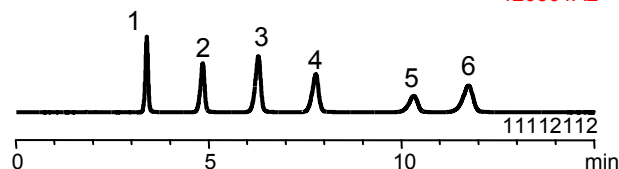
~ Separation characteristics of various HILIC columns ~

YMC Products

YMC-Triart Diol-HILIC
(Diol, Hybrid silica based)



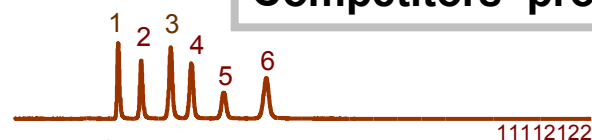
YMC-Pack Diol-NP
(Diol, Silica based)



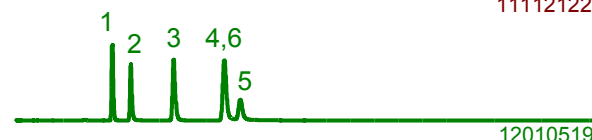
Separation characteristics and retention behavior of HILIC columns vary depending on types of functional group, bonding density, and types of base material. YMC-Triart Diol-HILIC shows moderate retention and ideal separation for those nucleic acid bases and Nucleosides.

Competitors' products

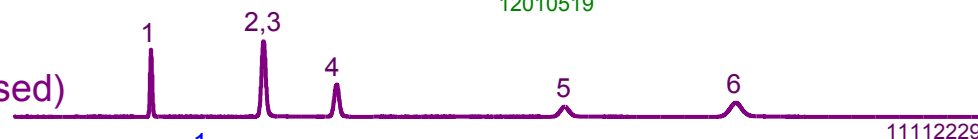
Luna HILIC
(Diol, Silica based)



XBridge HILIC
(Bare silica, Hybrid silica based)



XBridge Amide
(Amide, Hybrid silica based)



TSK-GEL Amide-80
(Amide, Silica based)



ZIC HILIC
(Zwitter ionic, Silica based)

