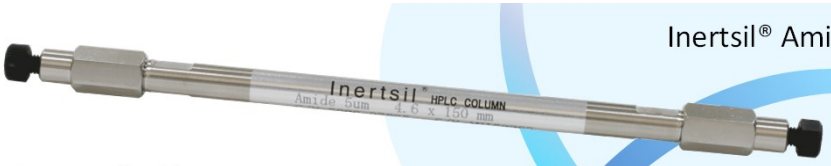
GL Sciences

An HPLC Column



Inertsil® Amide

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New Inertsil Amide Columns for Hydrophilic Interaction Liquid Chromatography

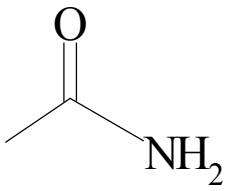
BENEFITS

- Excellent for those hard to retain compounds using an ODS column
- Perfect for LC/MS/MS due to the usage of high organic concentration in the mobile phase
- Offers longer column lifetime compared to other Amide column on the market

Physical Properties

Silica	: High Purity Silica Gel
Particle Size	: 3 um, 5 um
Surface Area	: 450 m^2/g
Pore Size	: 100 Å (10 nm)
Pore Volume	: 1.05 mL/g
Bonded Phase	: Carbamoyl Groups
End-capping	: None
Carbon Loading	: 18%
pH Range:	: 2～7.5

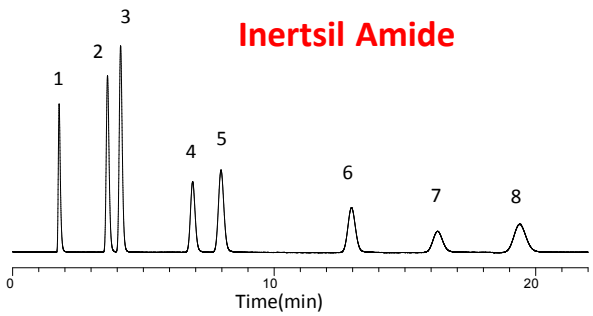
Carbamoyl Groups

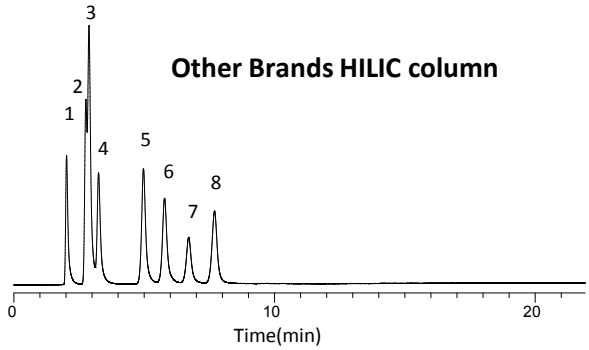


【Analysis of Nucleotide bases】

Hydrophilic interaction chromatography (HILIC) columns are used primarily for the separation of highly polar compounds. The GL Sciences' Amide columns offers radically increased retentivity and a unique selectivity which may allow you success in separating compounds that were unresolvable on other columns.

Showing high retentivity to highly polar compounds

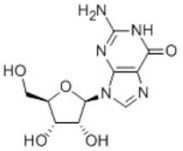




Analytical Conditions

Column	: 5 µm,150 x 2.1 mm I.D.
Eluent	A) CH_3CN
	B) 10 mM $HCOONH_4$
	A / B = 90 / 10, v / v
Flow Rate	: 0.2 mL / min
Col.Temp.	: 35 ℃
Detection	: UV 254 nm
Injection Vol.	: 1 µL

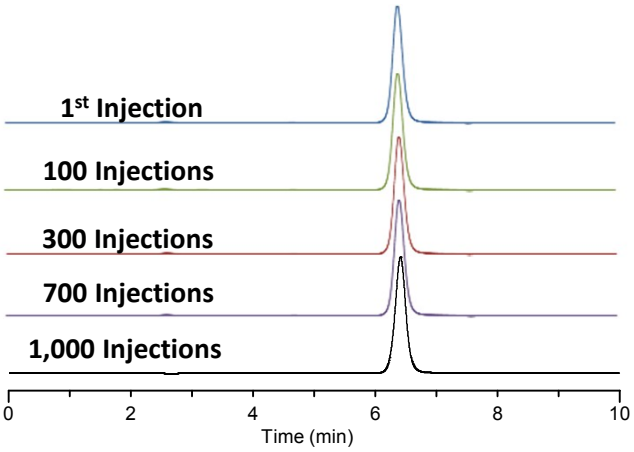
Sample:
1. Toluene
2. Thymine
3. Uracil
4. Uridine
5. Adenosine
6. Cytosine
7. Cytidine
8. Guanosine



Guanosine

【Column Durability】

Another advantage offered by Inertsil Amide is high durability compared to other HILIC columns. As shown below, the peak shape and retention showed no change after 1,000 sample injections under the conditions shown.



Analytical Conditions

Column	: Inertsil Amide (5 µm, 150 × 4.6 mm I.D.)
Eluent	: A) CH_3CN B) 10 mM $HCOONH_4$ A / B = 85 / 15 ,v / v
Flow Rate	: 1 mL / min
Detection	: UV 214 nm
Col.Temp.	: 40 ℃
Sample	: Melamine

【Ordering Guide】

Particle Size	Length(mm) / I.D.	2.1	3.0	4.0	4.6
3 µm	33	5020-07861	5020-07871	5020-07881	5020-07891
	50	5020-07862	5020-07872	5020-07882	5020-07892
	75	5020-07863	5020-07873	5020-07883	5020-07893
	100	5020-07864	5020-07874	5020-07884	5020-07894
	150	5020-07865	5020-07875	5020-07885	5020-07895
	250	5020-07866	5020-07876	5020-07886	5020-07896
5 µm	33	5020-07801	5020-07811	5020-07821	5020-07831
	50	5020-07802	5020-07812	5020-07822	5020-07832
	75	5020-07803	5020-07813	5020-07823	5020-07833
	100	5020-07804	5020-07814	5020-07824	5020-07834
	150	5020-07805	5020-07815	5020-07825	5020-07835
	250	5020-07806	5020-07816	5020-07826	5020-07836

- End-fittings are 1/16" Waters – compatible.
- Other column sizes available upon request.

【Contact Information】

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