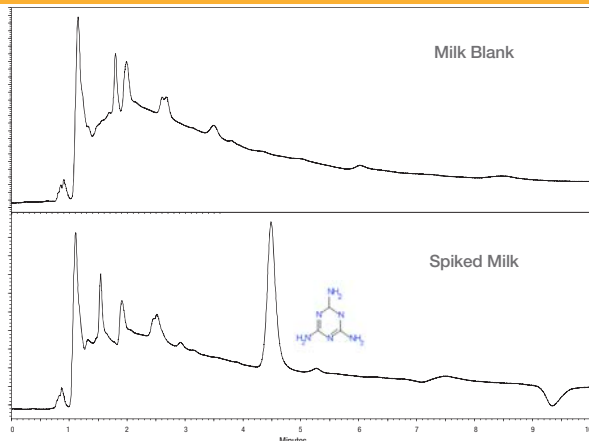


Melamine Contamination

Melamine has been adulterated into many products, but most importantly into baby milk in order to increase the apparent protein content. Due to its highly polar organic nature, 1,3,5-Triazine structure, it can be very difficult to retain in HPLC. HILIC provides a simple method in order to quickly quantitate melamine.

Column : Fortis HILIC 100x2.1mm 3µ
p/n : FHI-020503
Mobile Phase: 90:10 ACN : 20mM NH₃OAc
Flow : 0.2ml/min
Temp : 20°C
Wavelength: 210nm

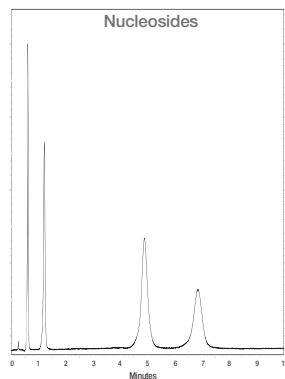


Nucleosides

Nucleosides are typically difficult to retain due to the ribose or deoxyribose sugar that forms part of their structure. Fortis HILIC provides a good tool to retain and separate these polar analytes in simple mobile phase conditions.

Column : Fortis HILIC 50x4.6mm 5µ
p/n : FHI-050305
Mobile Phase: 95:5 ACN : 100mM NH₃OAc
Flow : 1ml/min
Temp : 20°C
Wavelength: 254nm

1. Uracil
2. Uridine
3. Cytosine
4. Guanosine



Fortis HILIC	Column Length			
	50	100	150	250
2.1	FHI-0203xx	FHI-0205xx	FHI-0207xx	-
3.0	FHI-0303xx	FHI-0305xx	FHI-0307xx	-
4.6	FHI-0503xx	FHI-0505xx	FHI-0507xx	FHI-0509xx

Replace xx - 01 for 1.7µm - 03 for 3µm - 05 for 5µm - 10 for 10µm

Fortis HILIC Guards	Length
	10
Column Diameter 2.1	DCHI-0200xxG
4.6	DCHI-0500xxG

Fortis Pace™

- LC/MS Optimised Column Hardware
- 20mm and 30mm Column Lengths
- High Throughput
- High Efficiency and Resolution

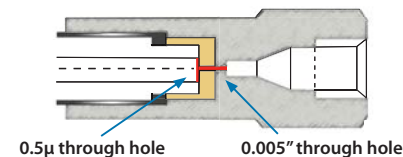
Fortis Pace™ columns are designed with High Throughput Screening (HTS) applications in mind. Optimised for use in LC/MS to provide greatest sensitivity by achieving sharp peak shapes combined with excellent resolution and retention. Any Fortis stationary phase and particle sizes can be supplied in this hardware.



Optimised Hardware

Fortis Pace column hardware is specifically designed for HTS, whether isocratic or by ballistic gradients. Optimised packing density in this low volume hardware leads to ultra sharp peak shapes combined with maximum efficiency.

By combining a low volume flow path with an optimised frit Fortis PACE columns provide improved efficiency, Asymmetry and pressure.



- Reduced peak widths
- Higher Efficiency
- Eliminated dead volume

Hardware Comparison			
	plates/m	Sym	Bar
Standard Hardware	93,100	1.173	48
PACE™ Hardware	100,176	1.113	38
% Change	+7.6%	-5.4%	-21%

Complimentary Stationary Phases

Fortis stationary phases have been proven to exhibit excellent peak shapes and efficiency, packed in Pace hardware allows speed and resolution to be achieved without the need for UHPLC systems.

Providing highly retentive and selective phases allows strong retention properties, enabling high concentrations of organic modifier to be utilised optimising the MS ionisation process.

Gains are also made in:

- Reduced analysis time
- Increased productivity
- Lower solvent consumption

Column: Fortis Pace C18 30x2.1mm 5µ
p/n: F18-020205
Mobile Phase: A - H₂O + 0.1% Formic acid
 B - ACN + 0.1% Formic acid
Gradient: 60 - 90% in 2min
Flow: 1ml/min
Temp: 25°C
Wavelength: 254nm

1. Uracil
2. Benzene
3. Ethylbenzene
4. Propylbenzene
5. Butylbenzene
6. Pentylbenzene
7. Hexylbenzene
8. Heptylbenzene

