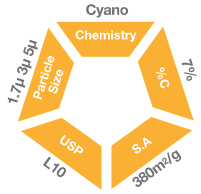
Fortis™ Cyano

- **Retention of Polars**
- **Alternative Selectivity**
- **Normal Phase or Reverse Phase system**
- **Rapid Equilibration**



Fortis Cyano allows the use of aqueous reversed phase conditions to provide less retention for compounds too heavily retained on C18 functionality. However, it can also be used in normal phase solvent systems to retain and separate polar analyte species.
Cyano columns are particularly useful for polar species. Fortis Cyano is now also available in 1.7µm particle size for UHPLC work.

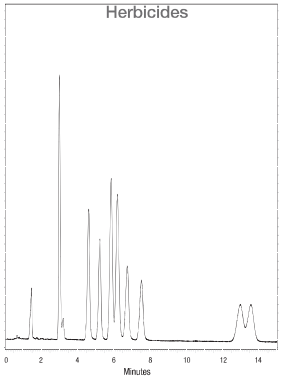
Herbicides

Fortis Cyano is optimised not only to help retain and resolve polar analytes, but also to be complimentary in resolution to other Fortis phases.

- **Normal phase as well as Reversed phase use**
- **Alternative Selectivity**
- **Rapid Equilibration**

Column : Fortis Cyano 50x2.1mm 3µ
p/n : FCN-020303
Mobile Phase: 80:20 H_2O : ACN + 0.2% Acetic acid
Flow : 0.2ml/min
Temp : 20°C
Wavelength: 280nm

1. Banvel
2. Internal Std
3. 2,4-D
4. MCPA
5. PCOC
6. 2,4-DCP
7. 2,4-DP
8. CMPP
9. 2,4-DB
10. MCPB



To see more applications on Fortis Cyano turn to page 37. To learn more about Fortis Cyano 1.7µm see page 7.

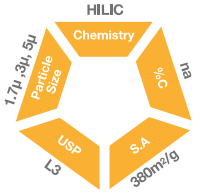
Fortis Cyano	Column Length			
	50	100	150	250
2.1	FCN-0203xx	FCN-0205xx	FCN-0207xx	-
Column Diameter 3.0	FCN-0303xx	FCN-0305xx	FCN-0307xx	-
4.6	FCN-0503xx	FCN-0505xx	FCN-0507xx	F18-0509xx

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

Fortis Cyano Guards		Length
		10
Column Diameter	2.1	DCCN-0200xxG
	4.6	DCCN-0500xxG

Fortis™ HILIC

- **Retention of Polar Compounds**
- **Increased MS Sensitivity**
- **Alternate Selectivity**
- **Reduced Extraction (SPE) and Dry Down Times.**

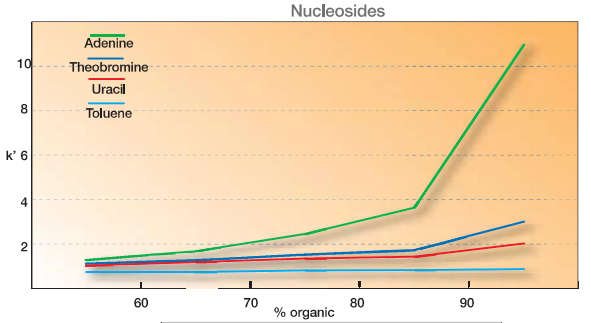


Fortis HILIC (Hydrophilic Interaction Chromatography) is designed to aid in the separation and retention of very polar analytes. Extended retention is afforded by the partitioning, ion-exchange and hydrogen bonding that can occur on a HILIC stationary phase. Fortis HILIC can increase sensitivity in MS analysis and provide alternate selectivity to that achieved with reversed phase C18. Fortis HILIC is now also available in 1.7µm particle size for UHPLC work.

Polar retention in HILIC mode

Fortis HILIC is optimised to help retain and resolve polar analytes. By use of high concentrations of organic solvent polar analytes partition with the stationary phase.

- **Polar Retention**
- **Alternative Selectivity**
- **Rapid Equilibration**



Hydrophilic Interaction Chromatography (HILIC) works in a similar way to normal phase chromatography. A polar surface combined with a non-polar mobile phase, typically ACN, allows for partition of the polar analytes and hence retention and separation. Water is used in low concentration as the strong solvent in order to elute the compounds.

Usually no more than 20%-30% water is needed in order to elute most analyte species.