

NEW Cogent Amide™
For Sugars and Amines

Cogent Phase	Particle Size (µm)	Pore Size (Å)	Surface Area (m ² /g)	Carbon Load (%)	Endcapped	Optimum pH Range	Recommended Max. Temp. (°C)	USP Code
Amide	4	100	390	2-3	No	2.5 - 7.5	80	L68

For ordering information, see page 30.

Using our proprietary bonding technology, Cogent Amide has an amide functional group bonded to the silica-hydride surface direct silicon-carbon bonds. Since the ligand is attached to the surface with direct silicon carbon bonds the bonded phase does not hydrolyze in acidic conditions. Also, it does not make a strong association with acetone.

This column is very stable and efficient and is recommended for reversed-phase or aqueous-normal-phase separations of biomolecules, including carbohydrates, peptides, polysaccharides or tryptic digests.

Figure 12.

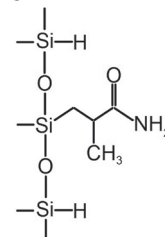
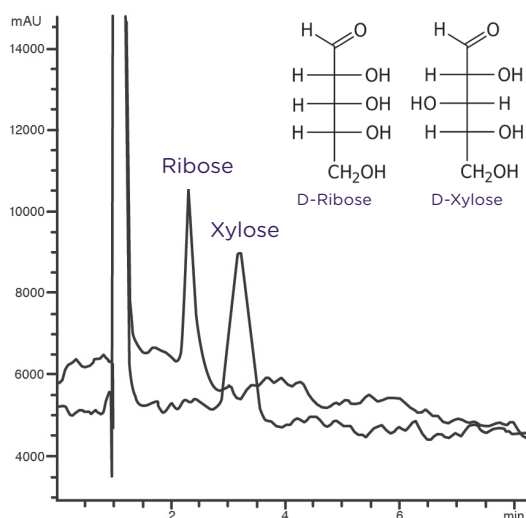


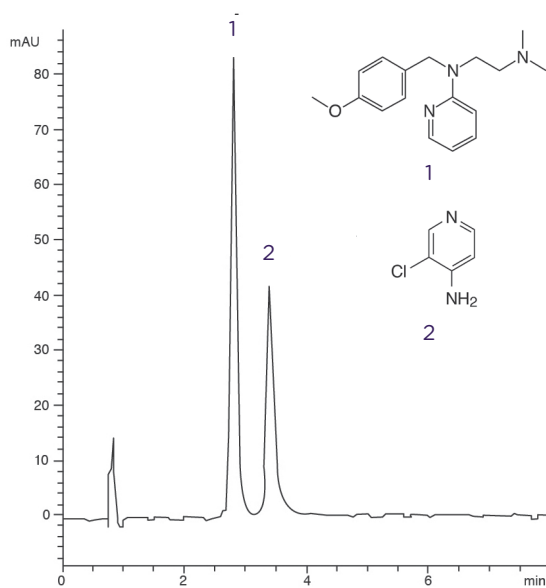
Figure 13.



Method Conditions

Column: Cogent Amide™, 4µm, 100Å
Catalog No.: 40036-05P
Dimensions: 4.6 x 50mm
Mobile Phase: 92% Acetonitrile/ 8% DI water/ 0.1% trimethylamine (TEA) (v/v)
Injection vol.: 2µL
Flow rate: 0.7mL/min
Detection: Refractive Index
Sample: 2mg/mL ribose and xylose reference standards in diluent of 50% acetonitrile/ 50% DI water/ 0.1% TEA (v/v).
Peaks: 1. D-Ribose
 2. D-Xylose

Figure 14.



Method Conditions

Column: Cogent Amide™, 4µm, 100Å
Catalog No.: 40036-05P
Dimensions: 4.6 x 50mm
Mobile Phase: A: 90% DI H₂O/ 10% acetonitrile/ 0.1% formic acid (v/v)
 B: Acetonitrile/ 0.1% formic acid (v/v)
Gradient:

time (min.)	%B
0	90
1	90
7	50
8	90

Injection vol.: 2µL
Flow rate: 1.0mL/min
Detection: 244nm
Sample: 100mg/L pyrilamine and 4-amino-3-chloropyridine reference standards in diluent of 50/50 solvent A/solvent B. Peak identities confirmed with individual standards.
Peaks: 1. Pyrilamine
 2. 4-Amino-3-chloropyridine