

Cogent Amino HPLC columns useful for Reversed or Normal Phase - Tech Information

DATE: 15-NOVEMBER-2019 Last Updated: 14-JUNE-2025

Understanding the Dual Functionality of Cogent Amino™ Columns

The Cogent Amino™ HPLC column is a versatile tool that can be used in both normal phase or reversed phase chromatography, depending on your application needs and the mobile phase you choose.

Dual-Mode Capability

- **Normal Phase (NP) Mode:**

The Cogent NP Amino™ column is ideal for non-hexane normal phase chromatography, especially when using solvents like heptane and ethyl acetate. It's a great choice for separating polar compounds in a non-aqueous environment.

- **Reversed Phase (RP) Mode:**

The Cogent RP Amino™ column is also highly effective for acidic or polar compounds when used with aqueous-organic solvents such as methanol or acetonitrile. This makes it suitable for reversed phase applications where traditional C18 columns may not perform as well.

Shipping Solvent Information

To help you get started quickly in your desired mode, the columns are shipped in solvents that match their intended use:

Column Label	Intended Use	Shipped In
Cogent Amino NP	Normal Phase	90/10 Heptane/Ethyl Acetate
Cogent Amino RP	Reversed Phase	Methanol

Note: You can switch between modes by properly flushing and equilibrating the column with the appropriate solvents with sufficient effort. Always follow recommended column conditioning procedures to avoid phase incompatibility or damage.

Helpful Tips for Users

- **Column Equilibration:** When switching between modes, ensure a gradual solvent transition to prevent precipitation or pressure spikes.
- **Sample Compatibility:** Choose the mode based on your analyte's polarity and solubility.
- **Storage:** Store the column in the solvent system that matches your next intended use.

 Click [HERE](#) for Cogent Amino™ Column Ordering Information and Product Images



Printed from the Chrom Resource Center
Copyright 2025, All Rights Apply
MicroSolv Technology Corporation
9158 Industrial Blvd. NE, Leland, NC 28451

Tel: (732) 380-8900
Fax: (910) 769-9435
Email: customers@mtc-usa.com
Website: www.mtc-usa.com