

New Method Development using a TYPE-C HPLC Column - Tips & Suggestions

Date: 1-APRIL-2012 Last Updated: 30-NOVEMBER-2025

Here are many compelling reasons to use Cogent TYPE-C™ HPLC columns for new method development. Below are some key advantages:

1. Simplified Method Design

Traditional columns often require gradients to handle mixtures with large polarity differences. With TYPE-C™ columns, isocratic methods are often possible—even for complex mixtures—saving time and simplifying method development.

2. Retention of Challenging Compounds

TYPE-C™ columns can retain compounds that previous column technologies cannot, offering solutions for difficult separations.

3. Rapid Mode Switching

Unlike conventional silica columns, TYPE-C™ columns lack water shells. This means switching between **Reversed Phase (RP)**, **Aqueous Normal Phase (ANP)**, and **Normal Phase (NP)** is fast and virtually memory-free, enabling flexible workflows.

4. Multiple Separation Mechanisms

These columns can combine RP and ANP mechanisms, and the choice of bonded phase allows fine-tuning for specific interactions—ideal for complex or untargeted analyses.

5. Superior Selectivity and Orthogonality

TYPE-C™ columns provide exceptional selectivity and can even be orthogonal to themselves, making them unmatched for untargeted analysis and comprehensive profiling.

For a deeper dive into these benefits, see the attached **White Paper "Why Labs Should Adopt TYPE-C Columns"** link below.



Attachment

Why Labs Should Adopt TC 52.2 Kb [Download File](#)

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