

Cogent™ Mini Columns – Fast LC and LC-MS

Cogent TYPE-C™ Mini Columns (20, 30 and 50mm length) for fast LC and LC-MS are designed to analyze large numbers of samples in as short a time as possible, without major sacrifice to column resolution. Quality Control environments and high throughput labs, in particular, benefit from the use of such columns. These columns are packed to analytical specifications and individually tested for packing dynamics and reproducibility.

The use of shorter columns enables the system to be run at high flow rates for fast LC or used for ‘ballistic type’ gradients for LC-MS. The columns equilibrate extremely fast compared to standard columns and exhibit very long lifetimes.

By reducing the column length from 250mm to 50mm, a saving of 80% in analysis time may typically be observed. Simultaneously, a beneficial reduction in solvent usage is achieved.

Figure 37.



Contact us for further advice and technical support on how to convert methods between different column lengths, i.d.s and particle sizes by emailing technical@mtc-usa.com or visit our online Chrom User Community from our website.

| Phase | 4.6 x 20mm | 4.6 x 30mm | 4.6 x 50mm | 2.1 x 20mm | 2.1 x 30mm | 2.1 x 50mm |
|-----------------------------|------------|------------|------------|-------------|-------------|-------------|
| Cogent UDC-Cholesterol™ | 69069-02P | 69069-03P | 69069-05P | 69069-02P-2 | 69069-03P-2 | 69069-05P-2 |
| Cogent UDC-Cholesterol 2.0™ | - | - | - | 69269-02P-2 | 69269-03P-2 | 69269-05P-2 |
| Cogent UDA™ | 40031-02P | 40031-03P | 40031-05P | 40031-02P-2 | 40031-03P-2 | 40031-05P-2 |
| Cogent UDA 2.0™ | - | - | - | 40231-02P-2 | 40231-03P-2 | 40231-05P-2 |
| Cogent TYPE-C Silica™ | 40000-02P | 40000-03P | 40000-05P | 40000-02P-2 | 40000-03P-2 | 40000-05P-2 |
| Cogent TYPE-C Silica 2.0™ | - | - | - | 40200-02P-2 | 40200-03P-2 | 40200-05P-2 |
| Cogent Phenyl Hydride™ | 69020-02P | 69020-03P | 69020-05P | 69020-02P-2 | 69020-03P-2 | 69020-05P-2 |
| Cogent Phenyl Hydride 2.0™ | - | - | - | 69220-02P-2 | 69220-03P-2 | 69220-05P-2 |
| Cogent Diol™ | 40060-02P | 40060-03P | 40060-05P | 40060-02P-2 | 40060-03P-2 | 40060-05P-2 |
| Cogent Diol 2.0™ | - | - | - | 40260-02P-2 | 40260-03P-2 | 40260-05P-2 |
| Cogent Diamond Hydride™ | 70000-02P | 70000-03P | 70000-05P | 70000-02P-2 | 70000-03P-2 | 70000-05P-2 |
| Cogent Diamond Hydride 2.0™ | - | - | - | 70200-02P-2 | 70200-03P-2 | 70200-05P-2 |
| Cogent Bidentate C8™ | 40008-02P | 40008-03P | 40008-05P | 40008-02P-2 | 40008-03P-2 | 40008-05P-2 |
| Cogent Bidentate C8 2.0™ | - | - | - | 40208-02P-2 | 40208-03P-2 | 40208-05P-2 |
| Cogent Bidentate C18™ | 40018-02P | 40018-03P | 40018-05P | 40018-02P-2 | 40018-03P-2 | 40018-05P-2 |
| Cogent Bidentate C18 2.0™ | - | - | - | 40218-02P-2 | 40218-03P-2 | 40218-05P-2 |
| Cogent Amide™ | 40036-02P | 40036-03P | 40036-05P | 40036-02P-2 | 40036-03P-2 | 40036-05P-2 |

See pages 30-32 for analytical and preparative columns.