

## Precision and Suitability of the Cogent TYPE-C HPLC Columns in LCMS - Tech Information

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Cogent TYPE-C™ Silica HPLC columns are engineered to deliver highly stable, low-noise chromatographic performance, making them an excellent choice for LC-MS applications where sensitivity and reproducibility are essential.

### **Exceptional LC-MS Performance**

These columns consistently produce lower background noise in LC-MS compared to most conventional HPLC columns. This reduction in baseline interference supports improved analyte detection—especially for compounds present at low concentrations.

### **Reliable Retention Time Precision**

For chromatographic precision, Cogent TYPE-C™ columns typically deliver <1% RSD for retention time across replicate injections. This level of reproducibility ensures stable method performance and dependable results over time.

### **Enhanced Detection Precision**

For the most accurate quantitation in LC-MS, the use of a suitable internal standard is strongly recommended. Incorporating an internal standard improves detection precision and supports consistent, reliable analyte measurement.

