

C₁₈ LithColumns, 100 µm I.D., 10 cm

C₁₈ LithColumns are robust, reproducible monolithic chromatography columns for reversed phase HPLC and LC-MS separations of peptides and small proteins. These polyimide coated fused silica capillary columns contain porous organic polymer monoliths that are polymerized in situ using the highest quality reagents and materials available, following rigid formulation and production protocols.

By optimizing the monolith formulation and production conditions, LithColumns balance high quality separation requirements with lower column flow resistance and higher flow rates. The polymeric monolith chemistry permits operation at a wider pH range (2 – 10) than traditional silica-based columns, both bead-based and monolithic. LithColumns are fabricated inside standard 360 µm OD fused silica capillary, and they can be quickly and easily inserted into any plumbing scheme with conventional fittings and adapters.

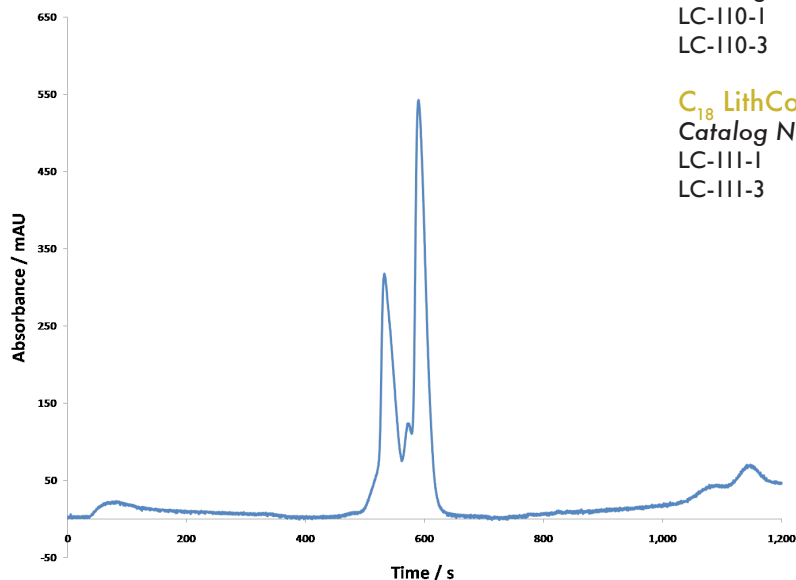
Reversed phase LithColumns are available in C₈ and C₁₈ chemistries, in 100 µm and 250 µm inner diameters, and in 10 cm and 20 cm lengths. Each lot is batch tested for performance on LC-MS and for structural evaluation by scanning electron microscopy (SEM) for quality assurance.

FEATURES:

- Wide range of operational pH ranges (pH 2 to 10)
- Low column back pressures
- Reproducible and efficient separations
- Rapid separations with higher flow rates

RESEARCH APPLICATIONS:

- LC-MS and LC-MALDI analysis of peptides and protein digests
- Peptide mapping studies
- LC-MS analysis of small molecules



SPECIFICATIONS:

Flow Rate:

- 0.5 – 5.0 µL/min (100 µm ID)
- 1.0 – 10.0 µL/min (250 µm ID)

Back Pressure:

- 500 – 5000 psi

Sample Capacity:

- 0.1 µg (100 µm ID)
- 1.0 µg (250 µm ID)

ORDERING INFORMATION:

C₁₈ LithColumns, 100 µm I.D., 10 cm

Catalog Number	Size
LC-100-1	1 column
LC-100-3	3 columns

C₁₈ LithColumns, 100 µm I.D., 20 cm

Catalog Number	Size
LC-101-1	1 column
LC-101-3	3 columns

C₁₈ LithColumns, 250 µm I.D., 10 cm

Catalog Number	Size
LC-110-1	1 column
LC-110-3	3 columns

C₁₈ LithColumns, 250 µm I.D., 20 cm

Catalog Number	Size
LC-111-1	1 column
LC-111-3	3 columns

LC Chromatogram of angiotensin I and somatostatin peptides on a 10 cm, 100 µm monolithic capillary column. The separation was performed at 0.5 µL/min for 20 min, with 12.5 pmol of each peptide injected in a 10 µL volume. Mobile phase A was 0.1% TFA in 2% acetonitrile and mobile phase B 0.1 % TFA in 98 % acetonitrile. The separation was performed using an ABI Tempo LC system with UV detection at 214 nm.

C₈ LithColumns, 100 µm I.D., 10 cm

C₈ LithColumns are robust, reproducible monolithic chromatography columns for reversed phase HPLC and LC-MS separations of small and intermediate-size proteins. These polyimide coated fused silica capillary columns contain porous organic polymer monoliths that are polymerized in situ using the highest quality reagents and materials available, following rigid formulation and production protocols.

By optimizing the monolith formulation and production conditions, LithColumns balance high quality separation requirements with lower column flow resistance and higher flow rates. The polymeric monolith chemistry permits operation at a wider pH range (2 – 10) than traditional silica-based columns, both bead-based and monolithic. LithColumns are fabricated inside standard 360 µm OD fused silica capillary, and they can be quickly and easily inserted into any plumbing scheme with conventional fittings and adapters.

Reversed phase LithColumns are available in C₈ and C₁₈ chemistries, in 100 µm and 250 µm inner diameters, and in 10 cm and 20 cm lengths. Each lot is batch tested for performance on LC-MS and for structural evaluation by scanning electron microscopy (SEM) for quality assurance.

FEATURES:

- Organic polymer monolith in 1000 µm ID polyimide coated, fused silica capillary
- Wide range of pH working conditions (pH 2 to 10)
- Low column flow resistance
- Available in 10 cm and 20 cm lengths

RESEARCH APPLICATIONS:

- LC-MS and LC-MALDI analysis of small and intermediate-size proteins
- LC-MS analysis of peptides and protein digests

SPECIFICATIONS:

Flow Rate:

- 0.5 – 5.0 µL/min (100 µm ID)
- 1.0 – 10.0 µL/min (250 µm ID)

Back Pressure:

- 500 – 5000 psi

Sample Capacity:

- 0.25 µg (100 µm ID)
- 1.5 µg (250 µm ID)



ORDERING INFORMATION:

C₈ LithColumns, 100 µm I.D., 10 cm

Catalog Number	Size
LC-120-1	1 column
LC-120-3	3 columns

C₈ LithColumns, 100 µm I.D., 20 cm

Catalog Number	Size
LC-121-1	1 column
LC-121-3	3 columns

C₈ LithColumns, 250 µm I.D., 10 cm

Catalog Number	Size
LC-130-1	1 column
LC-130-3	3 columns

C₈ LithColumns, 250 µm I.D., 20 cm

Catalog Number	Size
LC-131-1	1 column
LC-131-3	3 columns