



New 15mmID Preparative HPLC Columns for HPLC & SFC Chromatography
More Loading than 10mmID columns and more cost effective than 20mmID columns

Application News

701 South Route 73 • West Berlin, New Jersey 08091-2621 • (856) 753-8400 • Fax (856) 753-8484

Preparative chromatography is an extremely powerful technique for the isolation of compounds from complex mixtures. At ES Industries we are pleased to introduce our new 15mmID preparative column format. Our 15mmID format enables the chromatographer to perform preparative chromatography on most analytical HPLC instruments, thus avoiding the purchase of new expensive dedicated preparative HPLC system. Preparative columns with 20mmID typically operate at flow rates between 12 – 20 mL/min well above the flows possible on an analytical HPLC. These flows would require the use of preparative HPLC. Our new 15mmID column can operate at flow rates between 6- 9 mL/min, which is well within the flow rate limits of most analytical instruments. The new 15mmID column format offers more than twice the loading amount of semi-preparative 10mmID columns. A typical chromatogram on the new 15mmID format is shown below. This chromatogram is an example of the loading capacity possible with the 15mmID format with each component at 10 mg injected on the column.

At ES Industries we offer preparative chromatography columns in a variety of particle sizes, pore sizes, and stationary phases. These highly efficient preparative columns are compatible with today's chemistries and analytical methodology. Our expertise in bonding chemistries and column packing technologies can deliver scalable chromatographic columns from analytical column formats up to 4 inch preparative diameters thus allowing for efficient transfer of methodologies from analytical columns to preparative columns.

All of the chromatographic phases offered by ES Industries are available in preparative column formats.

We offer lengths from 5cm to 50cm and several diameters including 10mm, 15mm, 20mm, 30mm, 50mm, 75mm and 100mm. Some of our most popular stationary phases for reverse phase, normal phase and SFC preparative columns are:

Reverse Phases

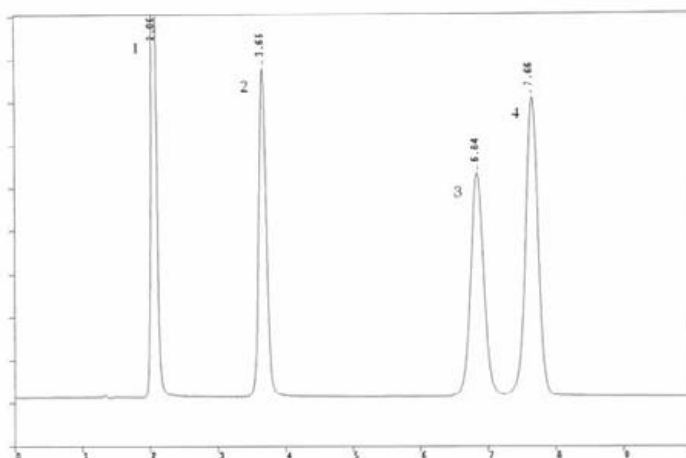
- Epic C18
- Epic C4-SD
- Epic Polar
- Chromegabond WR-C18
- AquaSep
- FluoroSep Phenyl RP
- MacroSep C18

Normal Phases

- Chromegabond Nitro
- Chromegasphere Silica/HS
- Chromegabond Diol
- Chromegabond Cyano
- Chromegabond Amine

SFC Phases

- Chromegabond Amino Phenyl
- Chromegabond Ethyl Pyridine
- Chromegabond Pyridyl Amide



Epic™ Polar 250 X 15mm ID 5 micron
 Catalog # 15P291-EPO

Mobile Phase : 5% Acetonitrile / 95% 20mM
 Flow Rate : 7 mL/min
 Detection : UV @ 254nm

10mg injected on column for each component

1. Uracil
2. Theobromine
3. Theophylline
4. Caffeine