5020-07345 Shimadzu InertSustain C18 5um 4.6X150mm HPLC Column Datasheet

Brand: Shimadzu

SKU: 891144054406

Category: Medical & Lab Equipment Spares

Price: **$1,114.29**

E-mail: sales@equipspares.com

Web: https://www.equipspares.com

Product Page:
https://www.equipspares.com/product/5020-07345-shimadzu-inertsustain-c18-5um-4-6x150mm-hplc-column

Product Description

Shimadzu 5020-07345 (GL Sciences) is a high-performance liquid chromatography column featuring a 150 mm length and 4.6 mm internal diameter, packed with 5 µm spherical silica particles. The hardware utilizes a high-purity ES silica gel base material that has been uniquely modified to provide a highly inert surface, minimizing secondary interactions with basic and acidic analytes. The internal mechanism consists of an octadecyl (C18) functional group with advanced end-capping technology, resulting in a 14.0 % carbon loading. This structural configuration ensures consistent performance across a wide pH range of 1 to 10 and maintains low operating back pressure during high-flow analytical procedures.

5020-07345 Specifications
Model Number: 5020-07345
Brand: Shimadzu / GL Sciences
Product Category: HPLC Column
Phase: InertSustain C18
Base Material: High Purity ES Silica Gel
Particle Size: 5 µm
Internal Diameter: 4.6 mm
Length: 150 mm

Separation Mode: Reversed Phase
Functional Group: Octadecyl
Pore Size: 100 Å (10 nm)
Surface Area: 350 m2/g
Pore Volume: 0.85 mL/g
Carbon Loading: 14.0 %
End-capping: Yes
pH Range: 1 to 10
Maximum Operating Pressure: 20 MPa (200 bar)
USP Code: L1
Format: Analytical Column

5020-07345 Applications

Primary applications include integration into liquid chromatography systems for the quantitative analysis of pharmaceutical compounds, fat-soluble vitamins A, D, K, and environmental pollutants like triclosan. Deployed within laboratory workflows for cannabinoid profiling, phospholipid separation, and the simultaneous detection of bile acids or lipid mediators using LC/MS/MS instrumentation.

Supplemental Images


InertSustain
C18 5um
4.6 x 150 mm (UP)
FLOW
RESTEK
Raptor
SCIENTIFIC