

Chromatography Consumables for Pharmaceutical Analysis



A wide range of products of
exceptional quality, value and reputation

Chromatography Consumables for Pharmaceutical Analysis

To ensure the highest level of safety and quality are maintained, prescription drugs are produced and tested according to the most stringent practices and procedures. Your selection of chromatography consumables is as critical as the choice of testing equipment.

We offer the most comprehensive portfolio of chromatography solutions to meet your pharmaceutical research and testing needs. From custom sample handling solutions and certified vials to GC and HPLC columns, our products are built to the highest standards of workmanship and backed by unsurpassed service and technical support. Our products are designed to provide total peace of mind.

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- 1 **Sample Handling Solutions**
 - 2 **Gas Chromatography Solutions**
 - 3 **Liquid Chromatography Solutions**
 - 4 **Accessories**

Sample Handling Solutions

Thermo Scientific HyperSep SPE Products

Our HyperSep® SPE products are ideal for a wide range of pharmaceutical applications. From drugs and metabolites in plasma to peptides in serum, our HyperSep SPE products give consistently high levels of recovery and enable fast and easy method development.

- HyperSep Retain PEP polymeric material for polar and non-polar analyte retention
- HyperSep Retain-CX for enhanced retention of basic compounds
- HyperSep Retain-AX for enhanced retention of acidic compounds
- HyperSep Accessories to compliment the HyperSep SPE range

Ordering Information

HyperSep Retain Polymeric Products

Bed Weight	Column Volume mL	Quantity	Part Number HyperSep Retain PEP	Part Number HyperSep Retain-CX	Part Number HyperSep Retain-AX
30 mg	1	100	60107-201	60107-301	60107-401
30 mg	3	50	60107-202	60107-302	60107-402
60 mg	3	50	60107-203	60107-303	60107-403
200 mg	3	50	60107-204	60107-304	60107-404
500 mg	6	30	60107-206	60107-306	60107-406
30 mg	1	1 Plate	60303-207	60303-307	60303-407
60 mg	1	1 Plate	60303-208	60303-308	60303-408

HyperSep Accessories

Description	Quantity	Part Number
Universal Vacuum Manifold	1	60104-230
Universal Vacuum Manifold Base/Gauge	1	60104-231
16 Port Vacuum Manifold	1	60104-232
24 Port Vacuum Manifold	1	60104-233

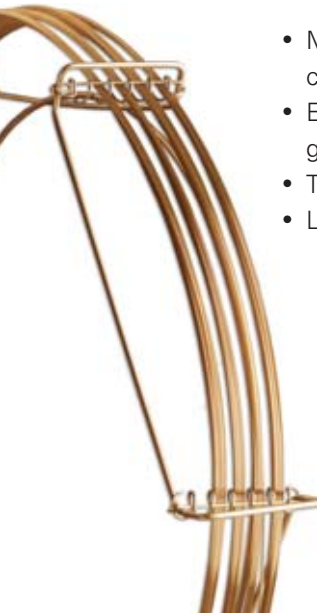


Gas Chromatography Solutions

Thermo Scientific TRACE TR-V1 GC Columns

Our TRACE™ TR-V1 GC Columns offer mid-polarity with thick film, ideal for analysis of volatile compounds such as residual solvents in pharmaceuticals. Our GC Columns provide good retention and separation at low oven temperatures.

- Maximum operating temperature of 300°C providing versatility for samples containing less volatile compounds
- Easily heated to remove contaminants thus reducing cycle times and providing greater sample throughput
- Thick films for the analysis of volatile analytes
- Low bleed suitable for MS detection



ID (mm)	Film Thickness (µm)	Length (m)	Part Number
0.18	1.00	20	260V495P
0.18	1.00	40	260V496P
0.25	1.40	30	260V332P
0.25	1.40	60	260V333P
0.32	1.80	30	260V339P
0.32	1.80	60	260V341P
0.53	3.00	30	260V396P
0.53	3.00	60	260V408P
0.53	3.00	75	260V490P

Super Clean Cartridge Filters

Thermo Scientific gas filters for GC & GCMS improve your analysis three times faster than other brands.

- New cartridge is operational within 10 minutes after installation
- Especially produced under strict He conditions prevents contamination from Ar or N₂ for use with MS
- Special re-useable base allows for flushing with other carrier gases



Description	Part Number
Base Plate for 1 Filter	60180-814
Base Plate for 2 Filters	60180-815
Base Plate for 3 Filters	60180-817
Moisture Cartridge with Indicator	60180-819
Oxygen Cartridge with Indicator	60180-820
Hydrocarbon Cartridge	60180-821
GC Cartridge Triple (O ₂ /H ₂ O/HC)	60180-824
GC Cartridge Triple (O ₂ /H ₂ O/HC)	60180-825
He Preconditioned	
GC Cartridge Combi (HC/H ₂ O)	60180-826

Liquid Chromatography Solutions

Thermo Scientific Hypersil GOLD Columns

Available in six stationary phases and delivering outstanding peak symmetry, our Hypersil GOLD® columns are an excellent first choice for pharmaceutical method development. 1.9 µm particles provide improved speed and efficiency in UHPLC applications.

Chemistry	Particle size (µm)	Length (mm)	2.1 mm ID	4.6 mm ID
Hypersil GOLD	1.9	50	25002-052130	25002-054630
	3	150	25003-152130	25003-154630
	5	250	25005-252130	25005-254630

Also available in C8, aQ, PFP, CN and Phenyl phases, other column dimensions and hardware formats.

Thermo Scientific Hypersil BDS Columns

One of the most popular packing materials available, our Hypersil BDS columns are reproducible, reliable and trusted worldwide. Our Hypersil® BDS columns are the only Hypersil columns in the marketplace that come with a Certificate of Authenticity.

Chemistry	Particle size (µm)	Length (mm)	2.1 mm ID	4.6 mm ID
Hypersil BDS C18	3	150	28103-152130	28103-154630
	5	250	28105-252130	28105-254630

Also available in C8, Phenyl, CN phases, other column dimensions and hardware formats.

Thermo Scientific Hypersil Classical Columns

With a wide range of phases, Hypersil classical columns have been successfully serving pharmaceutical laboratories for over 30 years. Thermo Scientific Hypersil columns offer the highest levels of efficiency and reliability.

Chemistry	Particle size (µm)	Length (mm)	2.1 mm ID	4.6 mm ID
Hypersil ODS	3	150	30103-152130	30103-154630
	5	250	30105-252130	30105-254630

Also available in C8, C1, Phenyl, CPS, APS, Silica, SAX phases, other column dimensions and hardware formats.

Thermo Scientific BETASIL Columns

High surface area silica with high bonded phase coverage makes BETASIL® columns a highly reproducible choice for acids, bases and neutral compounds. BETASIL Phenyl/Hexyl columns offer unique selectivity.

Chemistry	Particle size (µm)	Length (mm)	2.1 mm ID	4.6 mm ID
Betasil C18	3	150	70103-152130	70103-154630
	5	250	70105-252130	70105-254630

Also available in C8, C6, C1, Phenyl, CN, silica, diol phases, other column dimensions and hardware formats.



Drop-in Guard Cartridges

Extend column lifetime with these convenient, economical replacement guard cartridges

- Variety of stationary phases and particle sizes
- Cartridges fit Thermo Scientific Uniguard® direct connection and stand alone holders



Solutions for High Throughput Screening, Capillary and Preparative Chromatography

- Capillary and nanobore columns down to 75 µm ID meet the demands for increased sensitivity with LC-MS
- Thermo Scientific Javelin HTS direct connect columns and Thermo Scientific Dash HTS columns designed for high throughput screening
- Preparative columns are available with a range of selectivity and loadability for effective product isolation and purification



Accessories

Thermo Scientific SLIPFREE Column Connector

- Universal connectors compatible with all column end-fittings
- Self-adjusting design for void-free and leak-free connections
- Fingertight connection to 10,000 psi
- Available in a number of configurations



Description	Length (cm)	0.005" ID	0.010" ID
Single	10	30110	31110
	20	30120	31120
Double	10	30210	31210
	20	30220	31220
Single Flexible	15	30115-FLEX	39115-FLEX
	28	30128-FLEX	39128-FLEX
Double Flexible	15	30215-FLEX	39215-FLEX
	28	30228-FLEX	39228-FLEX

Thermo Scientific Premium Vials

- Convenient clam shell packs containing vials, caps and seals
- Compatible with a range of manufacturer's instruments
- Meet requirements of bodies such as US and European Pharmacopoeia



Cap Type	Vial Type	Dimensions (mm x mm)	Instrument Compatibility	Quantity	Part Number
Blue cap with blue silicone/red PTFE seal	2.0 mL crimp top vial, clear borosilicate glass 33	12 x 32	AS800/AS2000	100	60180-597
			TriPlus™ AS	1000	60180-593
Cap with white silicone/red PTFE seal	2.0 mL crimp top vial, clear borosilicate glass 33	12 x 32	SpectraSYSTEM™	100	60180-598
			Surveyor™/Surveyor Plus™	1000	60180-594
9 mm screw blue cap prefitted silicone/PTFE seal	2.0 mL screw top vial, clear borosilicate glass 33	12 x 32	AI/AS3000	100	60180-599
			TriPlus AS	1000	60180-595
8 mm screw black cap with white silicone/red PTFE seal	2.0 mL screw top vial, clear borosilicate glass 33	12 x 32	SpectraSYSTEM	100	60180-600
			Surveyor/Surveyor Plus	1000	60180-596
			Accela		

Thermo Scientific Pierce Reagents

We offer a wide range of high quality GC/HPLC reagents and solvents, which include:

- Silylation, Alkylation and Acylation reagents for GC derivatisation
- HPLC/GC Grade Solvents
- HPLC detection reagents for pre- and post-chromatographic techniques. All compounds and formulations are purified for chromatography, minimizing artefact formation



EP Scientific Environmental Containers

Total Organic Carbon Certified Containers

EP Scientific TOC containers offer low-level certified containers for Total Organic Carbon testing and sampling. EP Scientific containers are available several standard sizes of containers including the popular 40 mL autosampler vials cleaned, certified, and ready to use. Each lot of vials is tested and certified to contribute less than 10 ppb TOC as background and a Certificate of Analysis is included. As with all our certified processes, we can provide custom processed low TOC products using our containers or yours.



EP Scientific Custom Solutions

We have the flexibility to meet your cleaning requirements, whether your cleaning needs are for high volumes or smaller quantities. We have the capability to clean clear/amber glass or plastic containers, as well as closures or other component parts. Send us your containers and closures, or purchase from our extensive line of standard and custom products.

We can process containers from 100 μ L to 20 L. All cleaning services and packaging can be done in our certified class 100/10 cleanroom with full traceability. Processes available for standard and custom containers include:

- Low Particle Cleaning
- Depyrogenation
- Chemical Cleaning for Trace Analysis
- Nuclease-free Cleaning and Certification
- Custom Sterilization
- Surface Modification Services
- Custom Packaging Services



National Scientific Certified Vials

Our certified vials provide the best assurance of consistent performance with cradle to grave traceability in lot tested tamper evident packaging.

- Fully lot tested including HPLC and GC analysis
- Certificate of Conformance included in every pack
- Bonded caps to prevent septa push-through
- Clear Type 1, 33 expansion borosilicate glass or amber Type 2, 51 expansion borosilicate glass
- Available with or without ID patch
- Fixed micro vials or inserts for limited volume sampling



Learn more about our products:

Thermo Scientific Columns and Consumables

Our bi-monthly Separated by Experience newsletter keeps you up-to-date on the latest technical and product information of interest to chromatographers. Subscribe today!

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National Scientific Chromatography Accessories

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EP Scientific Products

www.epscientific.com

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