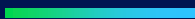




LC-MS Solutions

Making LC-MS Easier



Outline

 Our LC-MS Portfolio

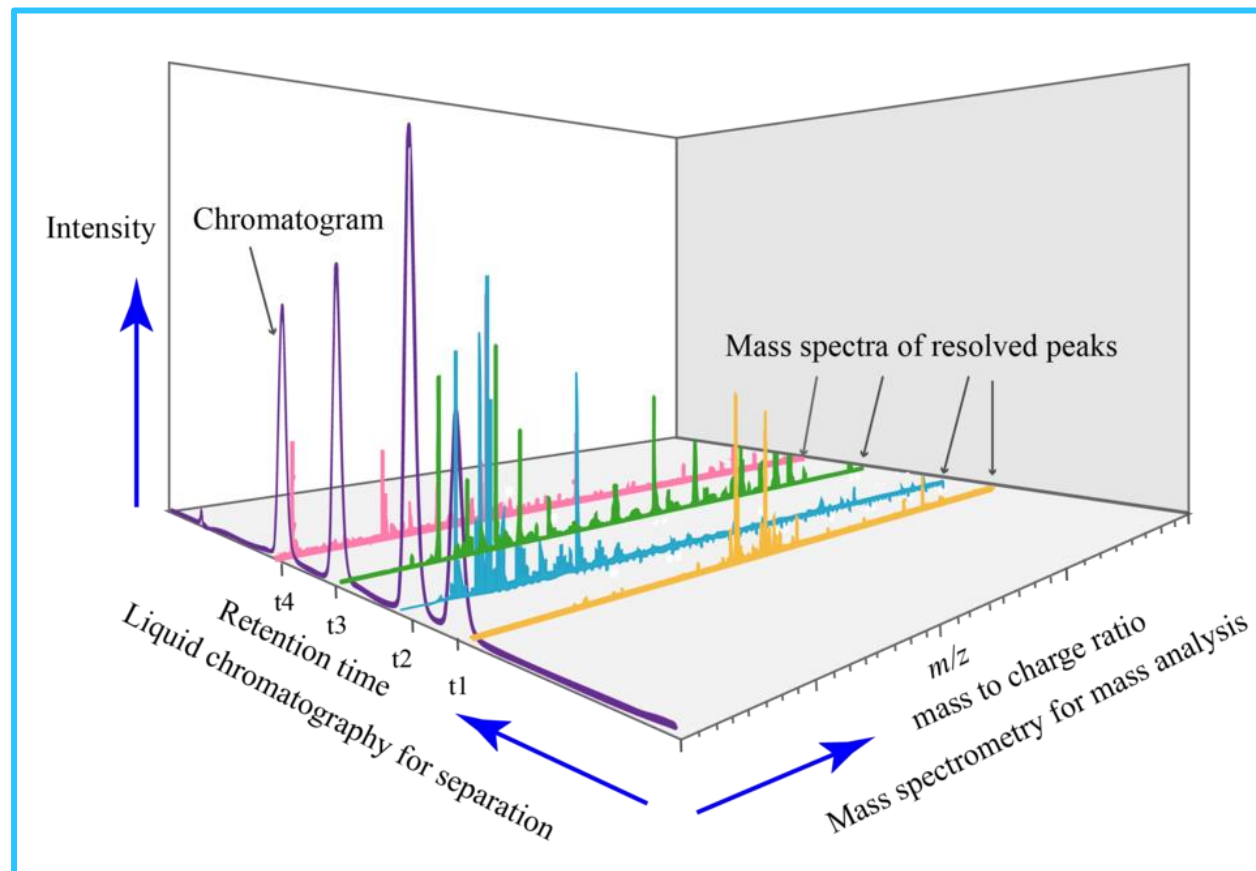
 Mobile Phase and Solvents

 Columns

 Sample Preparation

 Technical Support

 Summary



Our LC-MS Solutions Portfolio

Avantor LC-MS Product Portfolio

A manufacturer, not just a distributor, of LC-MS products



Avantor® ACE®



Avantor® HiChrom®



Avantor LC-MS Portfolio



Solvents and Mobile Phases

- LC and LC-MS grade mobile phase and solvents
- LC-MS additives

Columns

- Wide range of column chemistries
- HPLC and UHPLC columns
- Analytical and preparative scale
- Extensive method library

Sample Preparation

- Solid phase extraction
- QuEChERS
- TLC and HPTLC

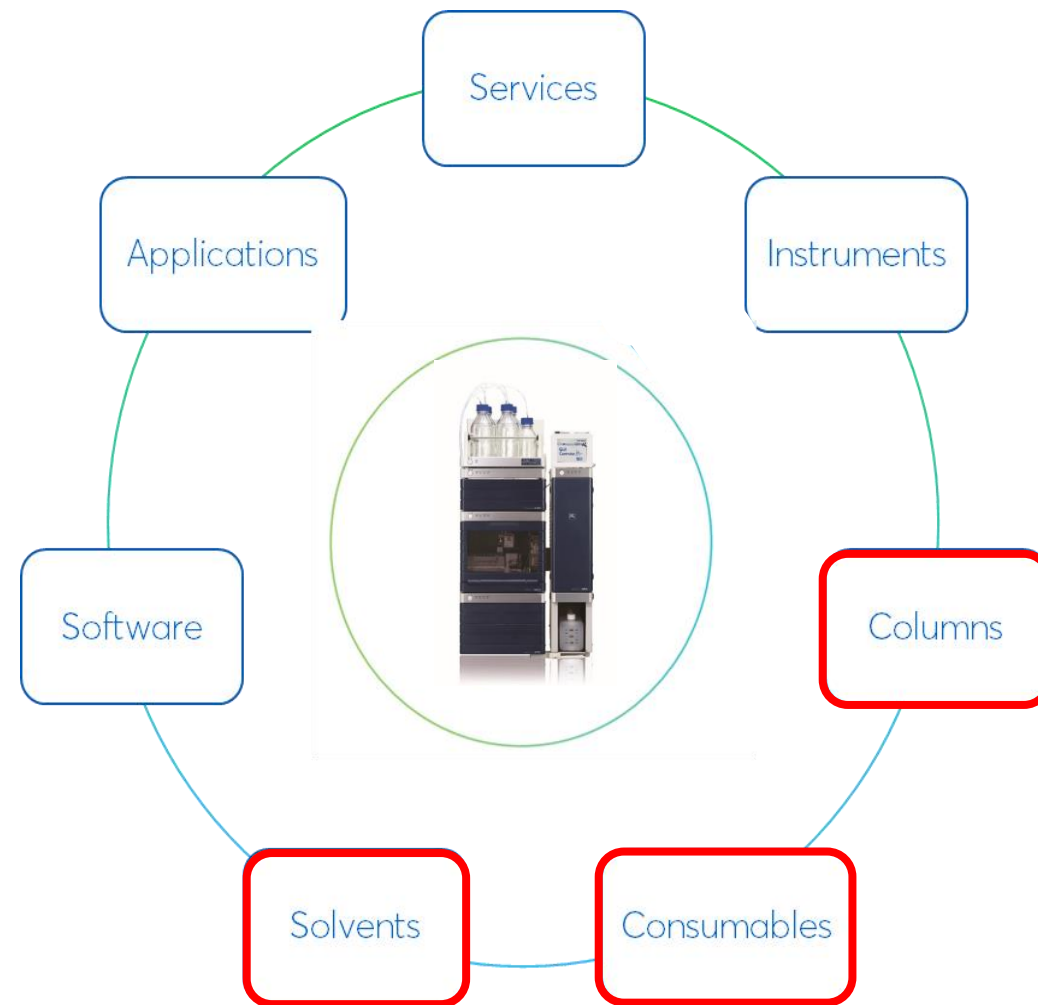
Services

- Maintenance contracts
- IQ/OQ
- Training
- Customization

Why Work With Avantor® For LC-MS?

Avantor® makes LC-MS easier with:

- **Comprehensive Product Portfolio**
 - High-purity solvents, columns and sample prep products
- **Expert Technical and Quality Support**
 - Extensive expertise and method library
 - Regulatory documentation and support for GMP
- **Leading Product Customization and Services**
 - Custom products, single-use solutions, and on-site services
- **Reliable Supply Chain**
 - Vertically integrated supply chain ensuring availability
- **Easy Product Ordering**
 - Streamlined procurement and inventory management



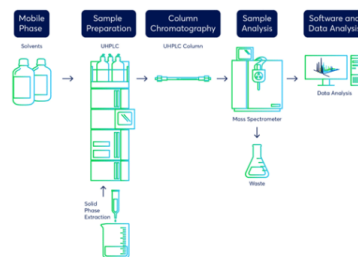
Avantor LC-MS Portfolio Page



Feedback

Ensuring your success with LC-MS

HPLC & LC-MS portfolio overview



HPLC & LC-MS integrated workflow solutions

Avantor offers comprehensive HPLC and LC-MS columns, solvents, sample prep products and services to help you achieve consistent, accurate and reproducible results faster. Every component in our portfolio is designed to work together to reduce variability, increase efficiency and simplify analysis.

[Explore LC-MS workflow solutions >](#)

Feedback



Get connected with an LC-MS expert



<https://www.avantorsciences.com/us/en/applications/chromatography/lc-ms-workflow>

Mobile Phase and Solvents



Quality for Your Mass Spec And Application

J.T.Baker® High-purity Solvents — Grade Recommendations

Application	Analyzed™ HPLC Reagents	Analyzed™ LC-MS Reagents	Analyzed™ ULTRA LC-MS Reagents
Gas Chromatography (GC)			
HPLC – Conventional	XXX	X	
HPLC – QA/QC	XXX	X	
HPLC – Research	XXX	XX	
LC-MS – QC/QA	XX	XXX	X
LC-MS – Research		XXX	XX
LC-MS – Critical Research	XX		XXX
UHPLC – QC/QA	XXX	X	X
UHPLC – General Research	XXX	X	XXX
UHPLC – Critical Research		X	XXX

Key:

X: Suitable

XX: Preferred

XXX: Ideal



Quality for Your Mass Spec And Application

J.T.Baker® High-purity Solvents — Grade Recommendations

MS Analyzer	LC-MS	ULTRA LC-MS Solvents
Single Quadrupole	X	
Tandem Quadrupole	X	X
Ion Trap		X
MALDI-TOF		X
MS-MS Hybrids (Quadrupole/Time-of-Flight)		X
FT-ICR (Fourier transform ion cyclotron resonance MS)		X

Industry/Application	LC-MS	ULTRA LC-MS Solvents
Drug Discovery		X
Drug Identification	X	X
Drug Formulation	X	
Biotechnology	X	
Food	X	
Academic Research	X	X

LC-MS Compatible Mobile Phase and Solvents

Description	Avantor Product Number	Fisher Scientific Cat. No.
Acetonitrile	9829-03	02002174
Acetonitrile – 0.1% Formic Acid	9832-03	02002075
Acetonitrile – 0.1% Trifluoroacetic Acid	9835-03	02002170
Ethyl Acetate	9828-03	02002840
Methanol	9830-03	02003341
2-Propanol	9827-03	02002097
Water – 0.1% Formic Acid	9834-03	02004568
Water – 0.05% Trifluoroacetic Acid	9839-03	02004564
Water – 0.1% Trifluoroacetic Acid	9836-03	02004570

Description	Avantor Product Number	Fisher Scientific Cat. No.
Acetonitrile	9853-02	02002173
Methanol	9836-02	02003340
Water	9823-02	02004557

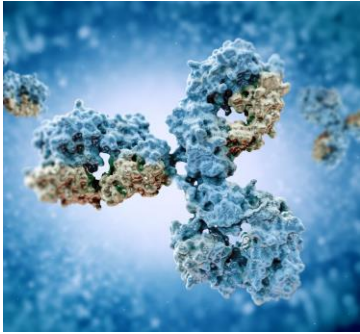


Columns



Columns and Methods for Many Applications

Biopharma



Research



Pharma



Industrial



Clinical



Government



Nano

Analytical

Semi-Prep

Preparative

Avantor® ACE® columns

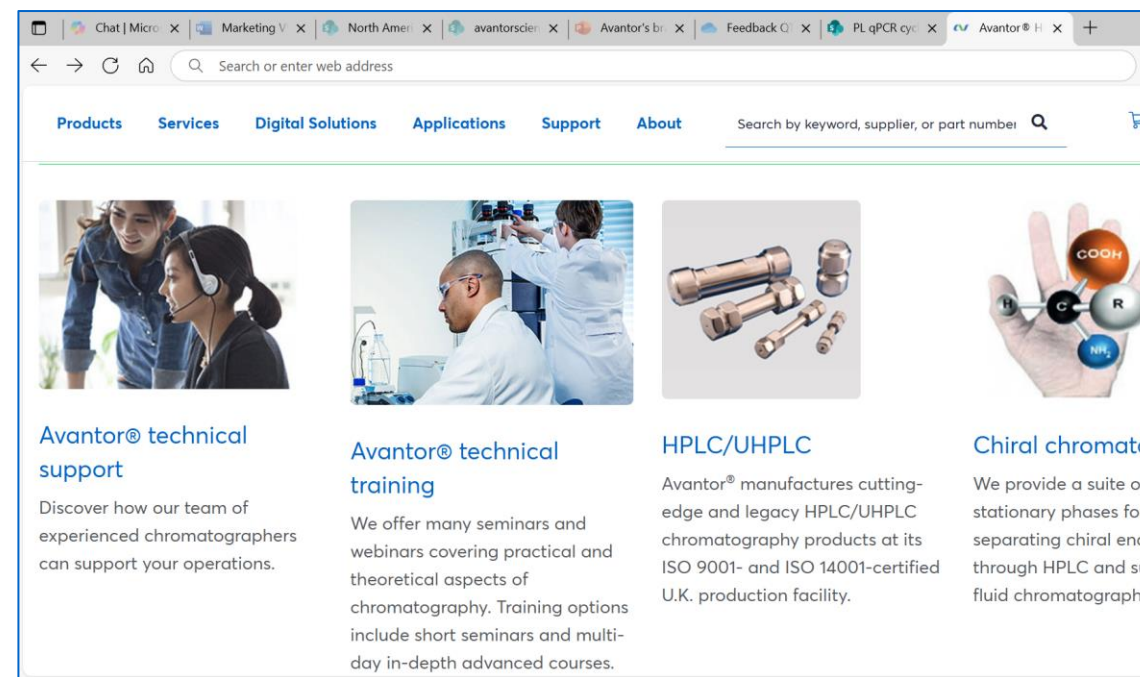
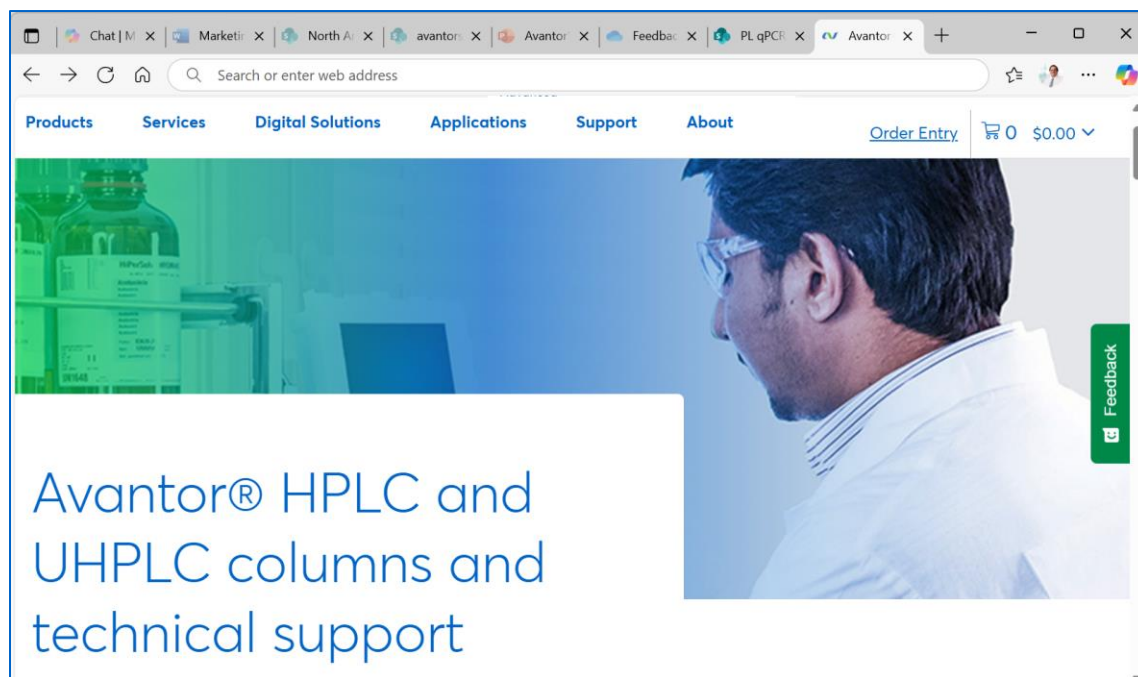
- Extensive range of column chemistries and dimensions
 - 2 cm to 30 cm in length
- Nano to Preparative IDs
- Custom packed LC columns
- Manufactured to ISO 9001 and ISO 14001
- Complementary guard cartridges
- Every column individually tested
- Batch reservations available

40+ YEARS
EXPERIENCE
IN HPLC



Avantor® Columns Microsite

Comprehensive technical, product and services information



www.avantorsciences.com/us/en/applications/chromatography/avantor-columns

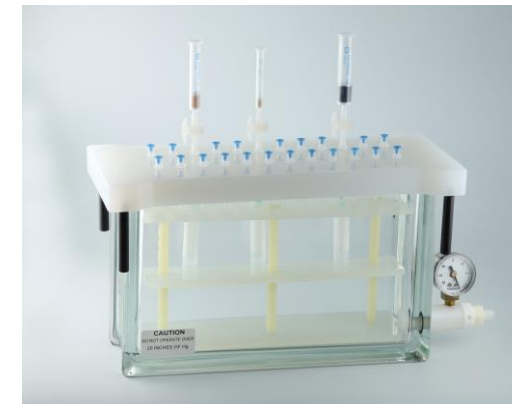
Sample Preparation



Syringe filters, columns and plates for LC-MS Sample Preparation

- Premium proprietary syringe filters portfolio
- Sample preparation prior to HPLC/LC-MS analysis in high end analytical & research applications
 - 92 individual products
 - HPLC certified per batch
 - CoC/CoQ per batch
- Available with the following membranes; PTFE, H-PTFE (hydrophilic), Nylon, PES, Regenerated Cellulose and GF (Glass fiber)
- Syringe filters with glass-fiber pre-filter; PTFE, H-PTFE, Regenerated Cellulose, Nylon, PES
- Diameters: 13 mm, 25 mm, 30 mm
- Pore sizes: 0.22 μm , 0.45 μm , 1.00 μm

Many matrices also available in column and plate formats



Technical Support



Expert, Unbiased Support and Expertise

Chromatography Technical Support

Who they are:

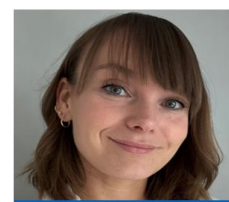
- 6 experienced chromatography specialists
- Chemistry/Biochemistry/Biomedical Science Degrees + PhDs
- **52 years of combined experience** supporting chromatography within Avantor®
- 1st class technical support at all stages of HPLC and LC-MS usage
- One point of contact: chromsupport@avantorsciences.com

What they can do for you:

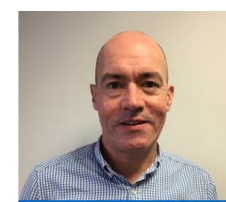
- Aim to provide 1st class technical support to associates, distributors and customers alike.
- Believe that if a customer has **any reason to question the performance or quality of any product**, we have sold them, then we should strive to resolve these issues, if possible, to the full satisfaction of the customer.



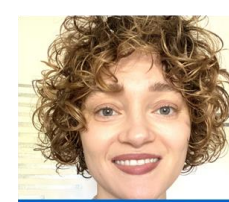
Gemma Howse



Marta Koszyczarek



David Crittle



Kirsty Ford



Thomas Davies



Filip Jowza



Lisa Hogan

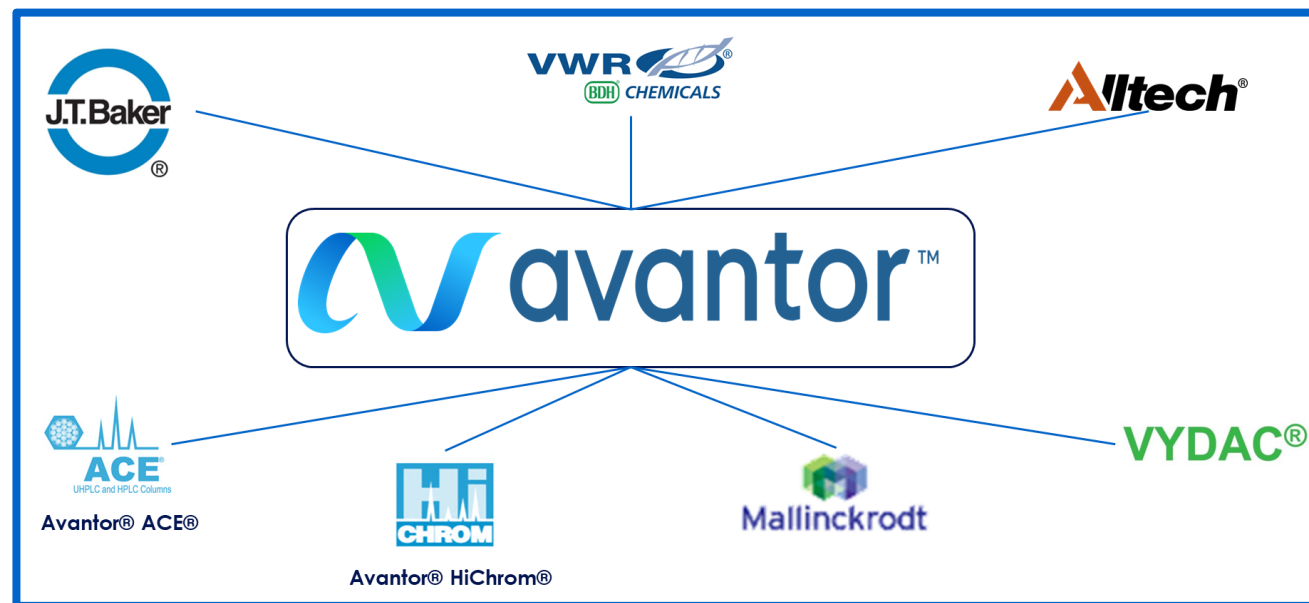
chromsupport@avantorsciences.com

Technical Support Team Capabilities

Dedicated full-time scientific staff supporting global inquiries with rapid response to all technical inquiries including:

- Column selection advice
- Troubleshooting advice
- Column lifetime and stability
- Column supply
- Applications support
- Method development strategy

Contact us at: chromsupport@avantorsciences.com



Website Access to Technical Support



Get connected with an LC-MS expert

Optimize your LC-MS methods and workflow with confidence. Connect with an Avantor LC-MS expert for personalized support to enhance precision, speed and reproducibility.

[Contact us](#)

www.avantorsciences.com/us/en/applications/chromatography/lc-ms-workflow

chromsupport@avantorsciences.com

 avantor™

Areas of Interest:*

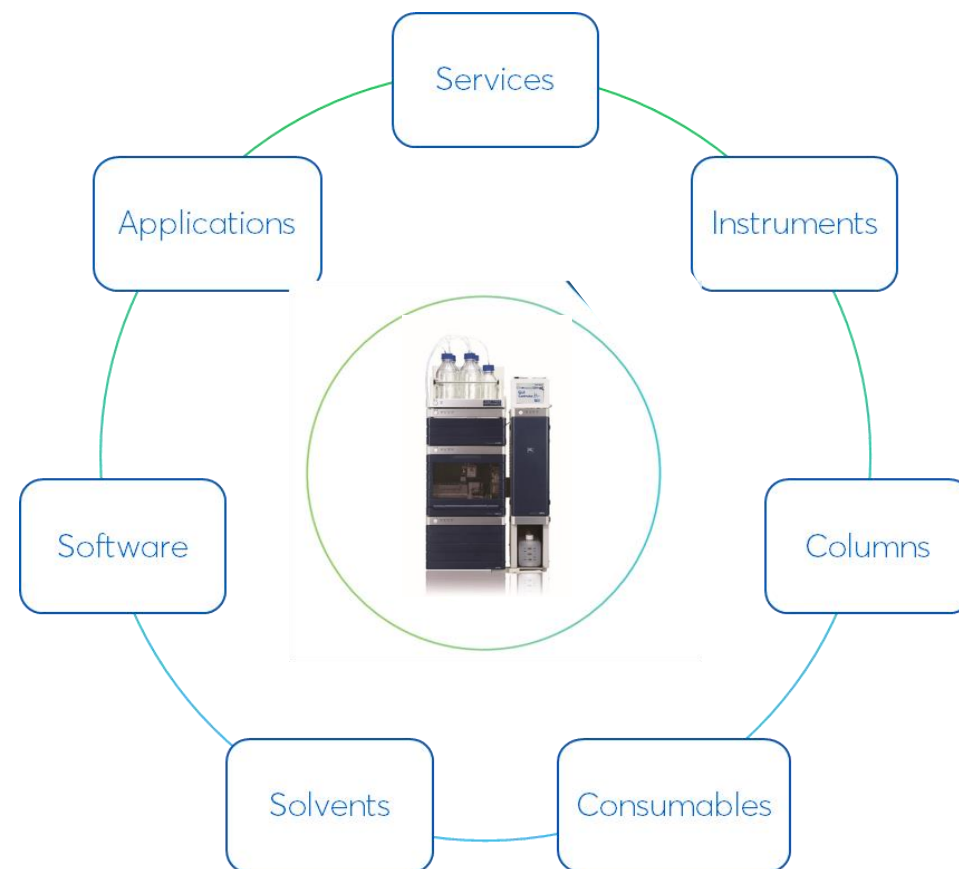
Select...
LC-MS
UHPLC
HPLC
Sample Preparation
Method Development
Chromatography Columns
Other

First Name:*

Summary

Avantor® makes LC-MS easier with:

- **Comprehensive Product Portfolio**
- **Expert Technical and Quality Support**
- **Leading Product Customization**
- **Reliable Supply Chain**
- **Easy Product Ordering**





Thank You

chromsupport@avantorsciences.com

