



Mass Spectrometry

LC-MS Consumables

Your Resource for Original LC-MS Consumables and Supplies

Innovation with Integrity

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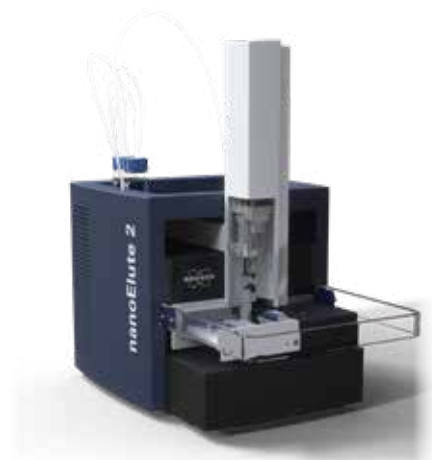
Liquid Chromatography Portfolio

Access to the widest variety of HPLC systems

Chromatographic separation is critical in many sample analysis workflows, and its value, analytical depth, and versatility are amplified dramatically when coupled to MS systems. Bruker's Compass HyStar is a state-of-the-art software solution for configuring and controlling hardware for these hyphenated techniques. Compatible with HPLC systems from many vendors, HyStar fully integrates LC-MS data collection. Subsequent data processing and report generation can be specific to a given workflow, including necessary quantitation, target identification, and screening tasks.

nanoElute 2 - Ready for the Next Generation of 4D-Proteomics™

The nanoElute 2® is a high-performance nanoflow liquid chromatography system with a user-friendly interface. It supports a wide range of applications, from single-cell to high-throughput proteomics. This next-generation instrument offers unmatched robustness, performance, and ease of use, delivering exceptional peptide identification and quantification.



Elute PLUS LC Series - Simply more for your MS analysis

Elute PLUS LC systems use advanced flow control algorithms for precise gradients, regardless of solvent compressibility, pressure, or flow rates. It features self-priming and self-purging pumps for easy mobile phase exchange and leak prevention. Automatic solvent compressibility measurement ensures stable flow rates. The system supports up to six column switches, enhancing productivity for various sample analyses. Improved retention time stability and peak shape make it ideal for high-throughput analysis.



timsTOF Mass Spectrometry Portfolio

Achieving unprecedented levels of ion mobility resolution in an extremely compact device.

Ion mobility spectrometry (IMS) is a powerful analytical technique that has been widely applied over the last five decades, primarily in chemical physics and analytical chemistry applications. Only relatively recently has the potential of IMS coupled to MS been explored for the separation, identification and quantification of peptides and proteins.

timsTOF Ultra 2

Discover the timsTOF Ultra 2 mass spectrometer with the CaptiveSpray Ultra 2 ion source for advanced omics research. Ion Charge Control 2.0 allows flexible sample loadings, setting new sensitivity standards. Explore single immune cells, individual human peripheral blood mononuclear cells, subcellular compartments, and other ultra-low input samples. Integrated with the 4D-Proteomics™ ecosystem, Bruker ProteoScape™, and enhanced by Spectronaut®, your next groundbreaking discovery awaits. What will you uncover?



timsTOF HT

The timsTOF HT, powered by the 4th generation TIMS-XR and advanced digitizer technology for high dynamic range and analytical depth in quantitative cell and tissue proteomics. Simply expand your capabilities to do high-throughput, 4D-Proteomics™.



timsTOF SCP

The timsTOF SCP for quantitative single cell biology research with unbiased, deep single-cell 4D-Proteomics™, immunopeptidomics, epiproteomics and PTM analysis to complement scRNA-seq. Expanding the horizons of single cell research.

timsTOF Pro 2

The timsTOF Pro 2, powered by the latest parallel accumulation serial fragmentation (PASEF®) technology, paves the way to 4D-Proteomics™ and 4D-Lipidomics with unbiased cell and plasma proteomics and liquid biopsy multiomic biomarker discovery, integrating genomics with proteomics and epiproteomics.



timsTOF fleX

timsTOF fleX combines the best x-omics platform with a MALDI source designed for imaging. Intelligence derived from MALDI Imaging can guide x-omics analysis of select cell populations to deliver greater cellular specificity of LC-MS approaches and establish a new SpatialOMx® benchmark for the future of pathology.



timsTOF fleX MALDI-2

The first iteration of the timsTOF fleX adds a powerful secondary laser to increase orders of magnitude over traditional MALDI for many small molecule and lipids classes. IntelliSlides® driven automation and MALDI-2 matrix take the work and worry out of your SpatialOMx® studies.



QTOF Mass Spectrometry Portfolio

The MS/MS capabilities of QTOF MS systems enable coupling to both LC and GC systems and Bruker's expertise provides a variety of innovative instruments. Our powerful, high-performance products are specifically designed to meet the rapidly growing needs of customers in the academic, pharmaceutical, industrial, clinical, and applied markets.

impact II VIP

The impact II VIP sets a technology standard for analytical performance in residue and contamination screening, forensics, industrial and synthetic chemistry, biomarker research, and more, with unparalleled ultra-high resolution Qq-Time-Of-Flight mass spectrometry.



maXis II

The latest in cutting-edge LC-QTOF MS technology provides enhanced resolution and mass precision for intact protein analysis, characterization of biopharmaceuticals, and native mass spectrometry analysis.



LC- and GC- Triple Quadrupole Mass Spectrometry Portfolio

Triple quadrupole mass spectrometry (MS/MS) quantifies sample components or analyzes their structure with high specificity and sensitivity using two mass filtration steps and a collision cell. It detects both positive and negative ions, broadening the range of analyzable compounds. Its high sensitivity and specificity make it essential in food testing, drug metabolism, pharmacokinetics, forensic toxicology, environmental studies, and biological analyses.

EVOQ® DART-TQ+

Best of both worlds -Rapid, reliable chromatography-free workflows as well as traditional LC-MS all in one easy-to-use, small footprint integrated triple quadrupole mass spectrometer designed for routine small molecule analysis.

EVOQ® LC-TQ

The EVOQ® Elite and EVOQ® Qube are designed for reliable quantitation of thousands of real samples in the fastest sample-to-report time possible.





Did you know?

Bruker LabScape maintenance service agreements are not only a key component for maximizing the duty cycle and reliability of your instrument. It is also your access to a global network of application and support specialists as well as original parts and supplies. Depending on your contract you enjoy a basic or premium discount on Bruker MALDI consumables, dedicated training and targeted application support.

Get in touch with your local Bruker office and discover your possibilities.

LabScape®

Service & Lifecycle Support

Maintenance Service Agreements for Life Science

	LabScape Connect	LabScape Essential	LabScape Access	LabScape Complete	LabScape Complete 48
Remote Services					
Remote Monitoring*	✓	✓	✓	✓	✓
Unlimited Priority Remote Support	✓	✓	✓	✓	✓
Software services					
Compass & Data Analysis SW Upgrades	✓	✓	✓	✓	✓
Postprocessing SW Licenses & Upgrades**		discount	discount	premium discount	premium discount
Upgrade of Postprocessing Software**				1 Voucher p.a	1 Voucher p.a
Regular Maintenance					
Regular Maintenance Work and Parts		✓	✓	✓	✓
On-site Repair Services and Parts					
Unlimited Repair Visits incl. Spare Parts			✓	✓	✓
Wear and Tear Part Replacement	discount	discount	discount	✓	✓
Loaner Equipment*					✓
Compliance Services					
Operational Qualification / Perform. Validation					included
On-site Response Service Level					
On-site Response			3-5 business days	3-5 business days	2 nd business day
Additional benefits					
Bruker Consumables	discount	discount	discount	premium discount	premium discount
Operation Training or Applications Training	discount	discount	discount	premium discount	premium discount

* if applicable to the respective MS product

** SCiLS Pro, MetaboScape, TASQ, Biopharma Compass

Sample Preparation and Chemicals

PreOmics

iST Technology – Proteomics Sample Preparation You Can Trust

Sample preparation is one of the most critical steps in MS-based proteomic workflows, but the variability of the starting materials can be challenging, and effective automation and standardization are needed.

PreOmics has developed innovative, flexible, and easy to use all-in-one solutions for a number of different sample types, based on its in-StageTip (iST) technology. The iST technology provides researchers with innovative kits and instruments that enable reliable, robust and reproducible sample preparation with increased peptide and protein IDs in record time. Among potential applications are drug development and biomarker discovery, research and applied proteomics.

Features:

- **Reliable** biological insights with reproducible results.
- **Versatile** solution for a variety of starting materials and input amounts.
- **Easy to use** for everyone with standard lab equipment and validated by the scientific community.
- **Automatable all-in-one kit solutions** with a simple 3-step workflow (Lyse-Digest-Purify).
- **Fast:** From sample to ultra-clean peptides in <2.5 hours with improved LC-MS analysis and protein identifications.
- **Full product support** for any customer need.

Learn more
about iST:





- **iST kits:** For all your proteomics sample preparation needs.
- **iST-BCT kits:** Optimized for biological fluids and more.
- **iST-NHS kits:** Compatible with chemical labelling.
- **Phoenix cartridges:** peptide clean-up ready for mass spectrometry analysis.

Bruker Part number*	Name	Manufacturer	Description
P.O.00001	iST 8x	PreOmics GmbH	8-sample kit. Single vials.
P.O.00027	iST 96x	PreOmics GmbH	96-sample kit. Racked into 96 well plate with collars for individual processing.
P.O.00067	iST HT 192x	PreOmics GmbH	192-sample kit. Reagents in amber bottles for easy use with liquid handlers.
P.O.00084	iST-BCT 8x	PreOmics GmbH	8-sample kit. Single vials.
P.O.00099	iST-BCT 96x	PreOmics GmbH	96-sample kit. Racked into 96 well plate with collars for individual processing.
P.O.00026	iST-NHS 12x	PreOmics GmbH	12-sample kit. Single vials
P.O.00030	iST-NHS 96x	PreOmics GmbH	96-sample kit. Racked into 96 well plate with collars for individual processing.
P.O.00083	iST-NHS HT 192x	PreOmics GmbH	192-sample kit. Reagents in amber bottles for easy use with liquid handlers.
P.O.00023	Phoenix 96x	PreOmics GmbH	6x peptide clean-up cartridges to remove contaminants. Arranged in plate for individual use.

All kits are automation-friendly for high-throughput applications on either PreOmics proprietary automation platforms PreON® and APP96™ or on 3rd party platforms by Beckmann, Tecan, Hamilton, Agilent and others.

* Please contact PreOmics (www.preomics.com; info@preomics.com) to ensure availability of PreOmics products & services in your country.

ENRICH Technology – The Next Level Of Plasma Proteomics

The high dynamic range refers to the vast discrepancy in protein concentrations in plasma, serum, CSF and other similar biological fluids samples, which poses significant challenges for LC-MS-based proteomics.

PreOmics ENRICH technology is an easy-to-use, robust, and species-independent solution for this dynamic range challenge in plasma proteomics and allows deeper access to the plasma proteome. It is based on the enrichment of low-abundance proteins onto paramagnetic beads, followed by proteomic sample preparation using the renowned iST workflow.

Features:

- **Deeper plasma proteome access:** Solution for dynamic range challenge in plasma.
- **Fast:** From plasma to clean peptides in less than 5h.
- **Robust:** Low technical variability and high reproducibility.
- **Versatile:** Applicable for plasma, serum, CSF and other similar fluids from various species (human, mouse, rat and more).
- **Complete solution:** All-in-one kit for enrichment and proteomic sample preparation.
- **Scalable & automatable:** 8x and 96-well formats, manual or automated workflow.
- **Economic:** attractive solution for HT applications with sample preparation/clean-up already included.

Learn more about
ENRICH technology:





- **ENRICH-iST:** Flexible, robust and automatable plasma, serum and CSF sample preparation across various species for mid-range proteomic depth.
- **ENRICHplus:** High-end solution for deepest access to the plasma proteome with all the advantages of ENRICH-iST.

Bruker Part number*	Name	Manufacturer	Description
P.O.00163	ENRICH-iST 8x	PreOmics GmbH	8-sample kit.
P.O.00164	ENRICH-iST 96x	PreOmics GmbH	96-sample kit.
P.O.00165	ENRICH-iST 96x HT	PreOmics GmbH	96-sample kit. DIGEST buffer vial format optimized for high-throughput applications.
On request	ENRICHplus 8x	PreOmics GmbH	8-sample kit. Exclusively available as early access.
On request	ENRICHplus 96x	PreOmics GmbH	96-sample kit. Exclusively available as early access.
On request	ENRICHplus 96x HT	PreOmics GmbH	96-sample kit. DIGEST buffer vial format optimized for high-throughput applications. Exclusively available as early access.

All kits are automation-friendly for high-throughput applications on common liquid handling platforms by e.g. Beckmann, Tecan, Hamilton, Agilent or others.

* Please contact PreOmics (www.preomics.com; info@preomics.com) to ensure availability of PreOmics products & services in your country.

BeatBox – Cell Lysis And Tissue Homogenization Simplified

For cells and tissue efficient homogenization is a crucial part of sample preparation. Reproducibility, cross-contamination and scalability, but also usability and space requirements are challenges to be faced.

Enter the BeatBox by PreOmics. A fast and easy to use instrument for up to 96 samples, which completes the homogenization in as little as 10 minutes without sample cross contamination and minimal heat induction. BeatBox® has a surprisingly small footprint and quiet operation in comparison to traditional tissue processing. With the BeatBox®, cell lysis and tissue (fresh, frozen and FFPE) homogenization can be integrated into the PreOmics® iST sample prep workflows.

Features:

- **Unique** GYUTO bead technology for best homogenization results and reproducibility.
- **Seamlessly** compatible with iST workflows for even greater efficiency.
- **Fast and easy to use:** Maximum protein release in 10 minutes by the push of a button.
- **Versatile:** Compatible with multiple tissue (1-50 mg) and cell types (up to 10⁷ cells); compatible with FFPE samples.
- **Safe:** Minimized heat induction and no cross contamination.
- **Flexible** throughput and parallelization: 96 well or 24 single tube formats.

Learn more
about BeatBox:





- **BeatBox Instrument:** Small, fast and easy to use tissue and cell homogenizer
- **BeatBox Tissue Kits:** Process 96 or 24 samples in the range of 1-5 and 5-50 mg, respectively, on the BeatBox instrument.
- **Bead Remover and Foils:** Removal of GYUTO beads from the BeatBox Tissue Kit 96x for downstream liquid handling applications.

Bruker Part number*	Name	Manufacturer	Description
P.O.00144	BeatBox Instrument	PreOmics GmbH	Tissue and cell homogenizer benchtop instrument.
P.O.00121	BeatBox Tissue Kit 96x	PreOmics GmbH	Process up to 96 samples (1-5 mg each) on BeatBox.
P.O.00128	BeatBox Tissue Kit 24x	PreOmics GmbH	Process up to 24 samples (5-50 mg each) on BeatBox.
P.O.00169	BeatBox Bead Remover	PreOmics GmbH	Removal of GYUTO beads from the BeatBox Tissue Kit 96x for downstream liquid handling applications.
P.O.00170	Bead Remover Foils	PreOmics GmbH	Separation foils for BeatBox bead remover.

* Please contact PreOmics (www.preomics.com; info@preomics.com) to ensure availability of PreOmics products & services in your country.

Biognosys – Next Generation Proteomics

The iRT Kit allows standardized quality control of LC-MS platforms in up to 500 injections.

Indexed Retention Time (iRT) is a dimensionless value that defines chromatographic retention of a peptide for a defined resin type (e.g. C18) relative to the iRT Standard. This concept that you can benefit from with the iRT Kit allows development of standardized QC methods across different LC-MS instrument types.

Features:

- *The iRT Kit contains a ready-to-use pooled mix of eleven non-naturally occurring synthetic peptides; carefully **optimized for stability, sensitivity, and retention time spacing** over the productive gradient.*
- *iRT Kit peptides spread in the ion mobility dimension which **allows monitoring shifts and ion mobility space** for timely calibration.*
- *Balanced intensities of peptide signals **minimize the possibility of undetected peptides under suboptimal LC conditions** and makes it easier to monitor any part of the gradient.*
- *The iRT Kit peptides are AAA quantified, providing accurate information of peptide amounts and fully enabling their use for **quantitative quality control**.*
- *In contrast to empirical retention time, the iRT value of a peptide is stable and enables accurate prediction of peptide retention for any chromatographic setup. The iRT Kit allows **straightforward determination of peptide iRT values and calibration of chromatographic systems**.*
- *LC system calibration with the iRT Kit dramatically **increases the throughput of the targeted proteomics** (MRM and PRM) experiments – even up to 20 times – by bundling more transitions into one run.*

Original iRT peptide kit publication and other resources:

- Escher C, Reiter L, MacLean B, Ossola R, Herzog F, Chilton J, MacCoss MJ, Rinner O. Using iRT, a normalized retention time for more targeted measurement of peptides. *Proteomics*. 2012 Apr;12(8):1111-21. doi: 10.1002/pmic.201100463. PMID: 22577012; PMCID: PMC3918884.
- <https://biognosys.com/resources/the-new-irt-kit-and-quic-the-qc-dream-team/>



Compatibilities

- Ready-to-use formulation for up to 500 injections from a single kit
- Monitor system performance and run quality with compatible software: Biognosys Spectronaut®, SpectroMine™, SpectroDive™ QuiC™, and Bruker TwinScape™

Bruker Part number	Name	Manufacturer	Description
1816351	Biognosys iRT Kit	Biognosys	Up to 500 injections
1900615	Biognosys 2x iRT Kit	Biognosys	Up to 1000 injections

For more information visit biognosys.com using QR code below or contact our team at order@biognosys.com.
Biognosys iRT Kit and Biognosys 2x iRT Kit could be ordered directly here:



ToxBox[®] – Making Toxicology Easy

ToxBox is transforming the way laboratories approach toxicology testing. By streamlining sample preparation and increasing workflow efficiencies, ToxBox empowers labs to deliver higher-quality results faster.

- **Efficiency and accuracy:** *ToxBox reduces sample processing time by 30-40%, allowing laboratories to report results more efficiently with higher precision and accuracy.*
- **Increased laboratory throughput:** *Process more samples in less time, focus more on data processing and reporting and less on sample preparation.*
- **Customizable:** *Fully customizable to fit your lab's needs – customize calibrators, QC's, sample well counts (internal standard wells), volumes, and concentrations.*
- **Traceable and accurate:** *All components are ISO-17034 certified and NIST-traceable, ensuring the highest standard of quality and compliance.*
- **Convenience:** *Receive calibrators, QCs, and internal standards to your lab pre-plated and reduce manual pipetting, minimizing errors and boosting productivity.*



ToxBox Formats:

Choose from a variety of ToxBox options to fit your laboratory's requirements including:

- **ToxBox Forensic Toxicology Panels:** Fully tested and validated forensic toxicology panels ready for use. Ideal for LC-MS/MS blood testing in medicolegal death and impaired driving cases, as well as urine testing in drug-facilitated crime investigations. Available with or without consulting services.
- **ToxBox ONE™ Panels:** Designed for maximum efficiency, these panels allow a single analyst to prepare, run, and report results of 20-25 samples in a single day. Available for blood testing in medicolegal death and impaired driving cases, and urine testing in drug-facilitated crimes.
- **ToxBox Custom Panels:** Create personalized panels with your specific analytes and concentrations to meet the requirements of currently validated methods. Your panels, your format – completely custom. Every batch is backed by full QC and a certificate of analysis from PinPoint's ISO17025-accredited lab.
- **ToxBox Tuning and Suitability Kits:** Customized kits to optimize chromatography and mass spectrometer performance. Well suited instruments after maintenance or for troubleshooting.
- **ToxBox Training Sets:** Support new analysts and competency training with affordable, ready-to-use pre-plated reference materials.
- **ToxBox Drug ID Sets:** Drug libraries delivered in 96-well plates. Add LC-MS/MS compatible solvent and they are ready for analysis – ideal for library building, validations, or recalibrating new or recently repaired instruments.
- **ToxBox QuantCaps™:** Comprehensive matrix-matched solutions for drug analysis applications on GC and LC platforms. These include calibrators, second-source QCs, blanks, validation materials, and detailed quality assurance documentation.

Consulting Services: Our experts can assist with implementation and validation of forensic toxicology panels.

Compatibilities: Compatible with existing and new workflows and ubiquitously used on all technologies – LC-MS/MS, QTOF, GC-MS/MS, HPLC. Products are for forensic toxicology testing and not acceptable for clinical, therapeutic, or diagnostic uses.

Bruker Part number	Name	Manufacturer	Description
1915741	ToxBox - Custom Analytical Plate	PinPoint Testing	Customize toxicology workflow with the ToxBox Custom Analytical Plate. This versatile plate can be tailored to specific needs, including drugs, concentrations, and quality controls. Key features: Customizable, high-quality, efficient Benefits: Simplify workflows, improve data quality, reduce re-runs
1915742	ToxBox ONE - ASB - Medicolegal Death & Impaired Driving - Full Blood Panel Prep Kit	PinPoint Testing	Streamline your medicolegal investigations with ToxBox ONE. This comprehensive panel provides all the necessary reagents for efficient blood sample processing. Key features: All-in-one solution, efficient workflow, ASB compliant. Benefits: Analyze 133 drugs in a single day, reduce backlogs, accelerate compliance.
1915743	ToxBox ONE - ASB Drug Facilitated Crime Investigations Panel - Urine Prep Kit	PinPoint Testing	Optimize your drug-facilitated crime investigations with ToxBox® ONE™. This panel offers a complete solution for processing urine samples. Key features: Efficient workflow, ASB compliant, comprehensive reagent package. Benefits: Analyze 61 drugs in a single day, reduce backlogs, accelerate compliance.
1915748	ToxBox ONE- ASB - Medicolegal Death & Impaired Driving - Blood, Cannabinoids/BARB Prep Kit- 2006	PinPoint Testing	Specifically designed for cannabinoid and barbiturate analysis, this panel offers a streamlined solution for medicolegal investigations. Key features: Efficient workflow, ASB compliant, focused on cannabinoids and barbiturates. Benefits: Analyze 10 drugs in a single day, reduce backlogs, accelerate compliance.
1915744	ToxBox Custom Blood Prep Kit - 96 well format	PinPoint Testing	Combine the ToxBox Custom Analytical Plate with blood-specific reagents for efficient blood sample analysis.
1915745	ToxBox Custom Urine Prep Kit - 96 well format	PinPoint Testing	Combine the ToxBox Custom Analytical Plate with urine-specific reagents for efficient urine sample analysis.
1915746	ToxBox Custom Oral Fluids Prep Kit - 96 well format	PinPoint Testing	Combine the ToxBox Custom Analytical Plate with oral fluids-specific reagents for efficient oral fluids sample analysis.
1915747	ToxBox Custom Waste Water Prep Kit - 96 well format	PinPoint Testing	Combine the ToxBox Custom Analytical Plate with wastewater-specific reagents for efficient wastewater sample analysis.
1915749	QuantCaps - Plant Matrix Kit	PinPoint Testing	Pre-prepared reference materials for drug analysis in plant matrices are ideal for GC and LC platforms.
1915750	QuantCaps - Oil/Wax Matrix Kit	PinPoint Testing	Pre-prepared reference materials for drug analysis in oil/wax matrices, ideal for GC and LC platforms.
1915751	QuantCaps - Food/Gummy Matrix Kit	PinPoint Testing	Pre-prepared reference materials for drug analysis in food/gummy matrices, ideal for GC and LC platforms.

Selection of publications

- **Hands-Free Analytical Urine Testing Technology Validated for Drug-Facilitated Crime Investigations**

Marina Avram, Carter A. Bodinger, Madeline A. Clark, Daniel G. Stuckey, Samuel E. Mathews, Susan N. Stogsdill, Elyse C. Barna, David K. Williams, Mitchell McGill, William E. Fantegrossi, Erica L. Liebelt, Laura P. James, Gregory W. Endres, and Jeffery H. Moran
Chemical Research in Toxicology 2023 36 (10), 1584-1591
DOI: 10.1021/acs.chemrestox.3c00136

- **Rapid Chromatography-Free Screening of Benzodiazepine Drugs and Metabolites in Urine using DART-MS on the EVOQ® DART-TQ+**

Terry L. Bates, Marlene R. Moskowitz, François Espourteille, Bruker Applied Mass Spectrometry

<https://bams.showpad.com/share/O1re3h4bb58epXErAlecU>

- **ANSI/ASB Standard 036, First Edition 2019
Standard Practices for Method Validation in Forensic Toxicology**

https://www.aafs.org/sites/default/files/media/documents/036_Std_e1.pdf

- **ANSI/ASB Standard 121, First Edition 2021
Standard for the Analytical Scope and Sensitivity of Forensic Toxicological Testing of Urine in DrugFacilitated Crime Investigations**

https://www.aafs.org/sites/default/files/media/documents/121_Std_e1.pdf

- **ANSI/ASB Standard 120, First Edition 2021
Standard for the Analytical Scope and Sensitivity of Forensic Toxicological Testing of Blood in Impaired Driving Investigations**

https://www.aafs.org/sites/default/files/media/documents/120_Std_e1.pdf

- **ANSI/ASB Standard 119, First Edition 2021
Standard for the Analytical Scope and Sensitivity of Forensic Toxicological Testing of Blood in Medicolegal Death Investigations**

https://www.aafs.org/sites/default/files/media/documents/119_Std_e1.pdf

Ready to experience the ToxBox difference?

Contact PinPoint Testing for a full catalog of offerings and learn how the PinPoint Testing team can support your laboratory's goals.
Email: Laboratory@pinpointtesting.com



Crosslinkers for Study the Tertiary and Quaternary Structures of Protein

Crosslinking mass spectrometry is a powerful and widely used technique to study the tertiary and quaternary structures of proteins. This technique utilizes crosslinkers, reagents that – at a minimum – consist of two amino acid reactive groups separated by a spacer arm. These functional groups react rapidly and irreversibly with amino functions in proteins, mainly neighboring lysine groups. The crosslinker builds covalent bonds between residues in close proximity of protein under native conditions, to ensure that only relevant structural information is retrieved. The crosslinked protein contains the MS-cleavable urea moiety, which enables unambiguous identification of crosslinked fragments by tandem MS after reducing, alkylating, and digesting. The detected residue-residue crosslinks can be used to derive distance restraints with a resolution of 20-30 Å.

Bruker provides two different types of crosslinkers:

- *Symmetrical urea derivatives with two N-hydroxysuccinimide (NHS) ester functions (DSAU, DSPU, DSBU), which differ in the chain length.*
- *The novel trifunctional crosslinker PhoX. Besides two NHS moieties that react with lysine-sidechains, it contains a phosphonic acid group that serves as an affinity tag. PhoX modified peptides are bound by immobilized metal affinity chromatography (IMAC), and can be eluted with ammonia, providing a convenient one-step method for efficient removal of unmodified peptides.*



Bruker Part number	Name	Type	Chain	Chain length
1881357	DSAU	Urea derivate, NHS ester	C2	~7.7 Å
1881356	DSPU	Urea derivate, NHS ester	C3	~10.1 Å
1881355	DSBU	Urea derivate, NHS ester	C4	~12.5 Å
1881358	PhoX	Phosphonic acid, NHS ester		~ 5 Å

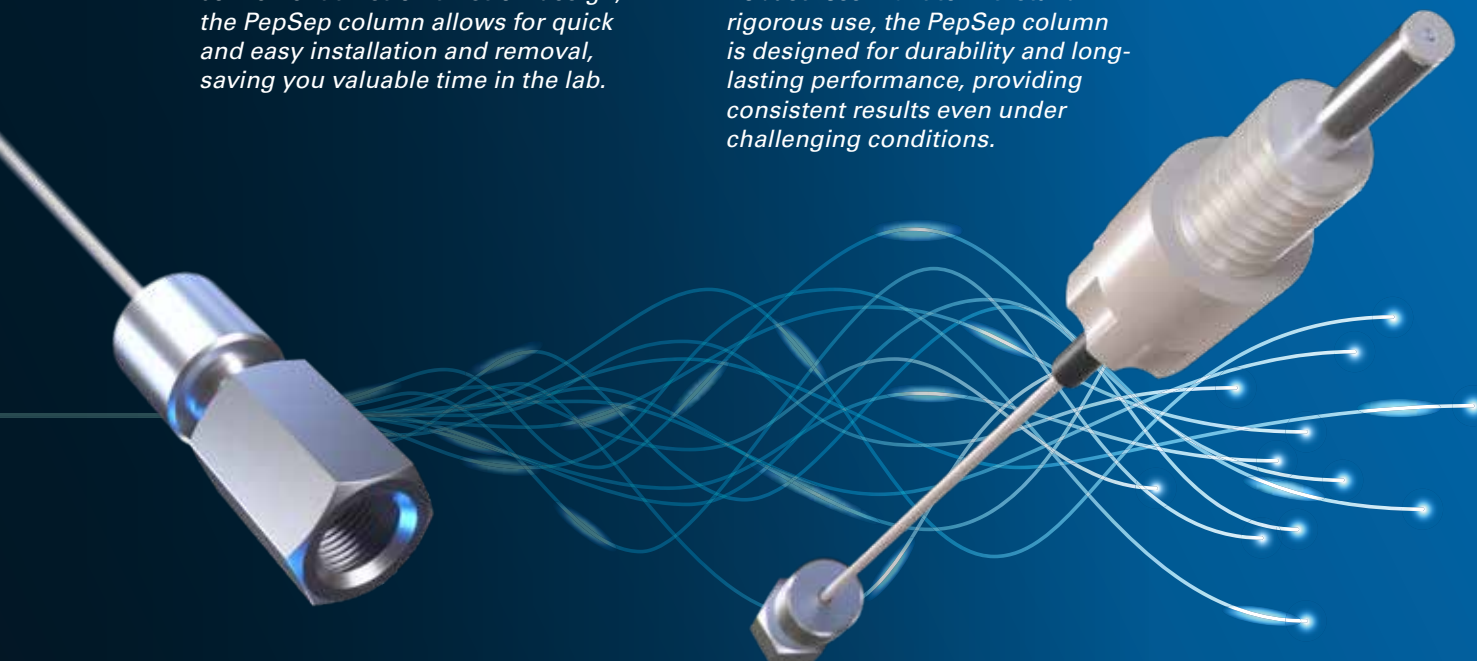
PepSep Consumables: Make Proteomics Faster, Easier, and More Affordable

More Samples. Less Time. Better Reproducibility.

Achieve precise separation with our cutting edge reversed phase HPLC columns. Experience deeper coverage, higher throughput, and robustness, meeting the demands of even the most challenging samples.

Tested at lightning fast PASEF® speeds, PepSep columns are the ultimate choice for all your proteomics applications. Get ready to elevate your analysis to new heights!

- **High performance and sensitivity:** The PepSep column delivers exceptional performance and sensitivity, ensuring precise and reliable results for your analytical needs.
- **Interchangeable tips:** With interchangeable tips, the PepSep column offers versatility and adaptability, allowing you to customize your setup to meet specific experimental requirements.
- **Twist-on twist-off design:** Featuring a convenient twist-on twist-off design, the PepSep column allows for quick and easy installation and removal, saving you valuable time in the lab.
- **Robustness:** Built to withstand rigorous use, the PepSep column is designed for durability and long-lasting performance, providing consistent results even under challenging conditions.



Selection of publications:

- [Mammalian hybrid pre-autophagosomal structure HyPAS generates autophagosomes \(cell.com\)](#)
- [Exploration of cell state heterogeneity using single-cell proteomics through sensitivity-tailored data-independent acquisition | Nature Communications](#)
- [midiaPASEF maximizes information content in data-independent acquisition proteomics | bioRxiv](#)
- [A biotin targeting chimera \(BioTAC\) system to map small molecule interactomes in situ | Nature Communications](#)

PepSep columns

Bruker Part number	Name	Flow rate [nL/min]	Applications	
1895846	PepSep ULTRA XL C18 50 cm x 75 µm, 1.5 µm	100-250	Spectral library generation, Phosphoproteomics, PTMs, maximize IDs, DDA, Sequence Coverage	
1893484	PepSep ULTRA C18 25 cm x 75 µm, 1.5 µm	100-400	Single Cell Proteomics, Immunopeptidomics, General Proteomics, High Sensitivity	
1893627	PepSep C18 25 cm x 50 µm, 1.5 µm	50-200		Sensitivity
1893625	PepSep C18 15 cm x 75 µm, 1.5 µm	150-750		
1893626	PepSep C18 15 cm x 50 µm, 1.5 µm	50-300		
1895803	PepSep C18 10 cm x 75 µm, 1.5 µm	150-1000		
1893477	PepSep C18 25 cm x 75 µm, 1.9 µm	100-600	Single Cell Proteomics, Immunopeptidomics, General Proteomics	
1893473	PepSep C18 15 cm x 75 µm, 1.9 µm	200-1000		
1893472	PepSep C18 10 cm x 75 µm, 1.9 µm	150-1500	Single Cell Proteomics, Immunopeptidomics, General Proteomics, nanoElute install	
1893476	PepSep XTREME C18 25 cm x 150 µm, 1.5 µm	500-1500		
1895838	PepSep C18 40 cm x 150 µm, 1.5 µm	500-1000		
1893479	PepSep C18 25 cm x 150 µm, 1.9 µm	500-2000		
1895808	PepSep C18 15 cm x 150 µm, 1.5 µm OE	500-1500	General Proteomics, Plasma Proteomics, Mixed Samples, Gradient Versatility	Optimization
1893471	PepSep C18 15 cm x 150 µm, 1.9 µm	500-2000		
1893474	PepSep C18 15 cm x 150 µm, 1.5 µm	500-1500		
1895806	PepSep C18 15 cm x 100 µm, 3 µm	500-4000		
1893480	PepSep C18 8 cm x 100 µm, 3 µm	500-5000		
1903885	PepSep MAX HT C18 5 cm x 150 µm, 1.5 µm	500-5000		
1893483	PepSep MAX C18 10 cm x 150 µm, 1.5 µm	500-4000	General Proteomics, Plasma Proteomics, Mixed Samples, Gradient Versatility, High-Throughput	Throughput
1893470	PepSep C18 8 cm x 150 µm, 1.5 µm	500-5000		
1895619	PepSep C18 4 cm x 150 µm, 1.9 µm	500-5000		

CaptiveSpray 2 emitter



Our ready-to-use fused silica emitter is designed with a simple plug and play setup providing you a hassle-free proteomics sample preparation. With two inner diameters available, our emitters cover both, high-throughput applications and the unique demands of plasma or single cell proteomics.

Bruker Part number	Name	Recommended flow range
1811107	CaptiveSpray 2 Emitter 20µm, Pack 2x	300 - 5000 nL/min
1811112	CaptiveSpray 2 Emitter 10µm, Pack 2x	50 - 450 nL/min

Other emitters

The emitters feature an integrated liquid junction (LJ) designed for use with the PepSep sprayer. Each emitter has an outer diameter of 150 µm and is available in either stainless steel or fused silica. The stainless steel emitter has an inner diameter (ID) of 30 µm, while the fused silica emitters are available with IDs of either 10 µm or 20 µm. Both types of emitters are polished with fine diamond films to achieve a perfectly tapered tip.

Bruker Part number	Name	Manufacturer
1893525	PepSep Emitter SS 30µm, LJ	Bruker Daltonics GmbH & Co. KG
1893527	PepSep Emitter FS 10µm, LJ	Bruker Daltonics GmbH & Co. KG
1893528	PepSep Emitter FS 20µm, LJ	Bruker Daltonics GmbH & Co. KG

microFlow emitter



Text for microFlow Emitter: The microFlow emitter for the VIP-HESI source serves as an optional enhancement to the standard ESI sprayer. This straightforward drop-in replacement, featuring a 50 μm inner diameter, significantly boosts peak intensities within the VIP-HESI source's lower flow range (1 $\mu\text{L}/\text{min}$ to 50 $\mu\text{L}/\text{min}$). The microFlow emitter's narrow ID is perfect for achieving greater analytical depth while maintaining robustness.

Bruker Part number	Name	Manufacturer
1811522	microFlow Emitter VIP-HESI 3Pck	Bruker Daltonics GmbH & Co. KG

PepSep transfer lines



Transfer lines are available in different lengths and IDs and are equipped with two patented nanoConnect (nC) connectors, ensuring a zero dead volume connection. By design, the nanoConnect system makes union and emitter connections quick, reliable, and straightforward.

Bruker Part number	Name	Manufacturer
1893489	PepSep Transfer Line 10cm x 20 μm 2nC	Bruker Daltonics GmbH & Co. KG
1893515	PepSep Transfer Line 20cm x 20 μm 2nC	Bruker Daltonics GmbH & Co. KG
1893490	PepSep Transfer Line 20cm x 30 μm 2nC	Bruker Daltonics GmbH & Co. KG
1886191	CSI Transfer Line Kit	Bruker Daltonics GmbH & Co. KG

Other nanoflow consumables



Filter Set CSI used in combination with CaptiveSpray Ion Source for the lock mass calibration of timsTOF instruments, which improves the precision of the mass axis.

Consist of:

- charcoal filter used to remove contaminants (plasticizers, siloxanes, and so on) from lab air (10 pcs)
- syringe filter used to apply lock mass calibrant (8 pcs)
- adapter (1 pcs)

Bruker Part number	Name	Description
1827072	Filter Set CSI	-
8204500	Stainless steel Unions;0.062"	ZDV union
901754	Activated Carbon Filter Ø65 mm	Filter for use with CaptiveSpray Ion Source on timsTOF Ultra series

Nanoflow accessories



The nanoElute 2 proteoCHIP LF 48 lid is designed to enable autosampler bottom sensing and direct sample pick up out of the Cellenion proteoCHIP LF 48 using the nanoElute 2 UHPLC system.

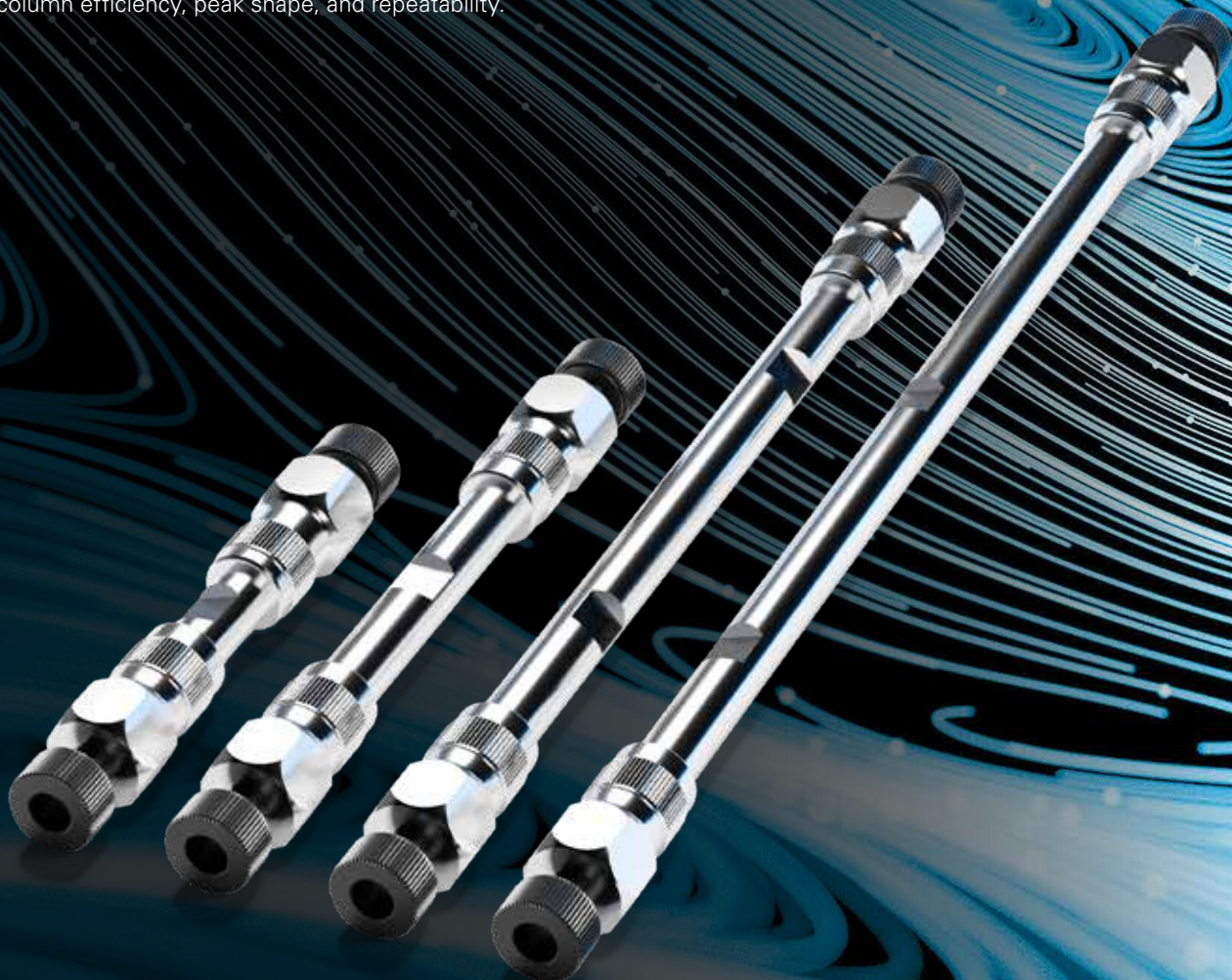
More information [here](#)

Bruker Part number	Name	Manufacturer
1904263	nanoElute 2 proteoCHIP LF 48 lid	Bruker Daltonics GmbH & Co. KG



Intensity Solo Columns

Bruker Intensity Solo are high performance HPLC columns with pure silica based stationary phase. These columns, with the versatile C18 phase, are suitable for the analysis of a wide range of hydrophobic analytes using LC-MS/MS. The columns are characterized by excellent column efficiency, peak shape, and repeatability.



Selection of publications:

BRHSC18022100

- [Fipronil and Amitraz in Egg Samples](#)
- [Analysis of vitamin D in cheese by APCI LC-MS/MS using the Bruker EVOO™ LC-TO Elite mass spectrometry system](#)
- [Determination of methotrexate and its main metabolites in human serum](#)

1850837

- [Determination and quantitation of drugs of abuse and designer opioids in serum](#)
- [Potential of Trapped Ion Mobility combined with LC-HRMS in Food Authenticity Studies](#)

Bruker Part number	Name	Lenght	ID	Particle size	pH range
BRHSC18022050	Intensity Solo HPLC Column,C18,2,2x50	50 mm	2.1 mm	2.0 µm	2-8
BRHSC18022100	Intensity Solo HPLC Column,C18,2,2x100	100 mm	2.1 mm	2.0 µm	2-8
BRHSC18032100	Intensity Solo HPLC Column,C18,3,2x100	100 mm	2.1 mm	3.0 µm	
BRHSC18032050	Bruker Intensity 3 C18 HPLC Column	50 mm	2.1 mm	3.0 µm	2-8
BRHSC18102030	Intensity Solo HPLC Trap, C18, 10, 2x30	30 mm	2.1 mm	10 µm	2-8

Column specifications

Pore Size	100 Å	Endcapped	yes
Column Type	Reversed phase	Surface Area	300 m²/g
Stationary Phase	C18	Carbon Load	15.5%
Aqueous Compatibility	up to 95%		

Bruker Part number	Name	Lenght	ID	Particle size	pH range
1850837	Bruker Intensity Solo 1.8 C18-2 100x2.1	100 mm	2.1 mm	1.8 µm	1-11

Column specifications

Pore Size	90 Å	Endcapped	Encapsulated
Column Type	Reversed phase	Surface Area	400 m²/g
Stationary Phase	C18	Carbon Load	14.8%
Aqueous Compatibility	up to 95%	Application	Target Screening with TargetScreener 2023 and higher

Bruker Bio-LP lipidomics column series



Product features:

- Bruker Bio-LP column provides fast and high-capacity separations of relevant lipid classes in complex matrices for improved lipidome coverage.
- With PASEF technology, even the smallest LC peaks reveal their secrets – delivering high sensitivity, robustness, and an extra dimension of separation for improved peak capacity.
- Simplified data analysis owing to improved chromatographic peak shapes and peak resolutions and reproducible retention times leads to higher confidence in lipid annotations.
- Low system pressure for reliable performance.

Bruker Part number	Name	Length [mm]	Stationary phase	Aqueous Compatibility [%]
1901682	Bruker Bio-LP Ultra Fast	20		
1901681	Bruker Bio-LP High throughput	50		
1901678	Bruker Bio-LP Standard	100	C8 Phase	up to 95
1901676	Bruker Bio-LP Deep Phenotyping	150		
1901677	Bruker Bio-LP Guard Column, 3 cartridges			
1901672	Guard column holder			

Column specifications

Pore Size	100 Å	Endcapped	yes
Column Type	Reversed phase	Surface Area	300 m ² /g
Stationary Phase	C8	Carbon Load	9%
Aqueous Compatibility	up to 95%	pH range	2-8

Bruker Bio-AQ metabolomics column series



Product features:

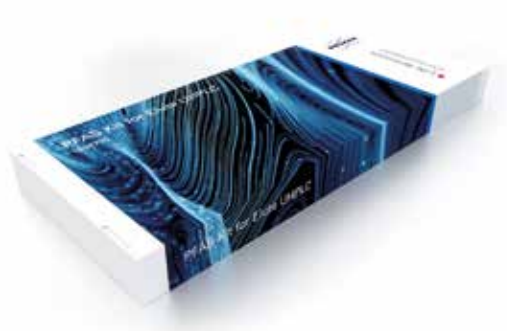
- Bruker Bio-AQ column enable fast and high-capacity separation of relevant complex matrices for improved metabolome coverage.
- Unique C18 bonded phase with integral polar functionality compatible with 100 % aqueous solvents for improved retention of polar compounds.
- Enhanced Data Analysis and Confidence: Improving chromatographic peak shapes, peak resolutions, and ensuring reproducible retention times fosters greater confidence in small molecule annotations.
- Low system pressure for reliable performance.
- Excellent reproducibility and column lifetime featuring ultra high purity, base deactivated silica.

Bruker Part number	Name	Length [mm]	Stationary phase	Aqueous Compatibility [%]
1901675	Bruker Bio-AQ Ultra Fast	20	C18AQ with embedded polar groups	100
1901674	Bruker Bio-AQ High throughput	50		
1901673	Bruker Bio-AQ Standard	100		
1901670	Bruker Bio-AQ Deep Phenotyping	150		
1901671	Bruker Bio-AQ Guard Column, 3 cartridges			
1901672	Guard column holder			

Column specifications

Pore Size	100 Å	Endcapped	yes
Column Type	Reversed phase	Surface Area	300 m ² /g
Stationary Phase	C18	Carbon Load	14%
Aqueous Compatibility	up to 95%	pH range	2-8

PFAS Kit for Elute UHPLC



The PFAS kit for the Elute series allows the elimination or significant reduction of PFAS contaminants in blank samples and empowers unambiguous identification and sensitive quantitation of PFAS in samples requiring national and regional regulations.

Bruker Part number	Name
1894795	PFAS Kit for Elute UHPLC

Kit content

- 2x solvent lines PEEK 1/8" for mobile phase (pump) (length = 1.25 m; Tubing ends are pre-tapped with solvent filters;
- 2x solvent lines PEEK 1/16" for wash solvent (autosampler) (length = 1.7 m);
- 1x MarvelXact tubing (length = 15 cm, ID 0.125 µm);
- 1x MarvelXact tubing (length = 50 cm, ID 0.125 µm);
- 1x buffer tubing PEEK 1/16" (autosampler);
- 1x Restek PFAS delay column;
- 2x safety caps; 2x tubing PEEK 1/8" SSV out to Degasser in;
- 1x tubing PEEK 1/8" Degasser out to Pump A in;
- 1x tubing PEEK 1/8" Degasser out to Pump B in;
- 2x Cable clips.

Column Kit screening



This Kit contains the respective columns to run the following screening solutions: Toxtyper 1.x, 2.x and 3.x, ToxScreener and PesticideScreener 1.x and 2.x. The Kit contains one analytical column RS 120, C18 2.2 µm, 2.1x100 mm and three pre-columns.

Bruker Part number	Name	Manufacturer
1828046	Column Kit Screening	Bruker Daltonics GmbH & Co. KG

Column specifications

Length	100 mm	Stationary Phase	C18
ID	2.1 mm	Aqueous Compatibility	up to 90%
Particle size	2.2 µm	pH Range	2-8
Pore Size	120 Å	Max. Temperature	60 °C
Column Type	Reversed phase	Max. Pressure	800 bar

Target Screening 3.X Column Kit



This column is part of the TargetScreener workflow (2023 and higher), which is used for the analysis of food/water samples for drugs, pesticides or mycotoxins, or equally challenging human/animal urine, saliva, or serum samples for poisons or drugs. It includes three pre-columns and one Bruker Intensity Solo 1.8 C18-2 analytical separation column.

Bruker Part number	Name	Manufacturer
1855424	Target Screening 3.X Column Kit	Bruker Daltonics GmbH & Co. KG
1850837	Bruker Intensity Solo 1.8 C18-2 100x2.1	Bruker Daltonics GmbH & Co. KG

Column specifications

Length	100 mm	Column Type	Reversed phase
ID	2.1 mm	Stationary Phase	C18
Particle size	1.8 µm	Aqueous Compatibility	up to 95%
Pore Size	90 Å	pH Range	1-11

T-Rex Elute M-column Kit



Dedicated T-ReX Elute Metabolomics-kit: RP used for non-targeted metabolomics applications based on T-ReX LC-QTOF solution. The kit simplifies the sample preparation for typical clinical research samples, including urine and plasma, since no LC-MS/MS parameter optimization is required. The Reversed-Phase LC column kit for Elute UHPLC enables matching of retention times to values in the Bruker HMDB Metabolite Library 2.0. The impact II for MS/MS data acquisition uses optimized parameters and its robust performance is the basis for high quality data acquisition, enabling extensive profiling studies of complex samples.

Bruker Part number	Name	Manufacturer
1859079	T-Rex Elute M-column Kit	Bruker Daltonics GmbH & Co. KG
BRHSC18022100	Bruker Intensity Solo HPLC Column, C18, 2, 2x100	Bruker Daltonics GmbH & Co. KG
1859793	Bruker HMDB Metabolite Library 2.0	Bruker Daltonics GmbH & Co. KG

Column specifications

Length	100 mm	Column Type	Reversed phase
ID	2.0 mm	Stationary Phase	C18
Particle size	2.0 µm	Aqueous Compatibility	up to 100%
Pore Size	100 Å	pH Range	2-8

Selection of publications:

- [Brochure Metabolomics - Novel solutions for Metabolomics, Lipidomics and high-throughput Phenomics](#)
- [Flash note Look Out! T-ReX 3D will simplify your metabolomics data processing!](#)
- [Application Note Incorporating CCS values to enable 4-dimensional annotation of metabolic features](#)

DAD flow cells



This LightGuide flow cell cartridges (1847752 and 1850689) combine maximum light throughput (due to total internal reflection) with minimum peak spread (very small cell volume) and thus guarantees an optimized signal-to-noise ratio. The flow cell is ideal for high flow rates and offers high resolution. These flow cells are not biocompatible and using 1/16" capillary connection.

The flow cell #1850690 is characterized by high pressure stability and is suitable for classic (U)HPLC applications. The flow cell is bioinert and can be used in a wide flow range.

Bruker Part number	Name	Path Length	Max flow rate	Flow cell volume	Max. pressure
1847752	LightGuide Flusszelle, 10mm, 2µl, 1/16"	10 mm	5 mL/min	2 µL	50 bar
1850689	Flowcell 50mm 1/16" 6µL 50bar	50 mm	5 mL/min	6 µL	50 bar
1850690	Flowcell 10mm 1/16" 10µL 300bar	10 mm	20 mL/min	10 µL	300 bar

UV flow cells

This stainless-steel analytical UV flow cell with fiber optic connectors is distinguished by its robust and long-life design. The flow cell can be easily dismantled allowing optical components to be cleaned and replaced. Fiber optic cables offer the possibility to separate the flow cell spatially from the detector and thus provides enhanced security for hazardous, explosive, or toxic work processes.

Bruker Part number	Name	Path Length	Max flow rate	Flow cell volume	Max. pressure
1848900	Flowcell UV 10 mm 10 uL 1/16" SS	10 mm	20 mL/min	10 µL	300 bar



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- *QuickStrip®: Increase efficiency with automated sampling of up to 12 samples simultaneously. Streamline routine analysis with less hands-on time.*
- *DIP-it® Tips: Streamline your workflow with easy-to-use dip samplers for liquids and solids. Compatible with automation for increased productivity.*

Find the perfect fit, experience the DART-MS advantage.



Selection of publications:

- [An Agile and Accurate Approach for N-Nitrosamines Detection and Quantification in Medicines by DART-MS](#)
- [Rapid Chromatography-Free Screening of Benzodiazepine Drugs and Metabolites in Urine using DART-MS on the EVOQ® DART-TO+](#)
- [How Clean is "Clean"? Going Above and Beyond the Conventional Check-Clean with a Rapid, DART-MS Protocol](#)
- [Rapid Screening of PFAS in Contaminated Soil utilizing DART](#)
- [Direct Analysis in Real Time Mass Spectrometry \(DART-MS\)](#)

Bruker Part number	Name	Description
1897997	OpenSpot Cards	<p>OpenSpot sample cards are easy-to-use cards for sample preparation using Bruker / IonSense DART-OS ion source. Designed to retain powders or liquids, the consumable card guides your sample into the right position for successful analysis. After a few seconds, the card is removed and discarded, leaving no solvent or vials to send out for disposal.</p> <p>OpenSpot sample cards are compatible with Bruker / IonSense DART-OS ion source</p>
1898004	QuickStrip® Sample Cards 1 box of 50	<p>QuickStrip Sample Cards facilitate transmission DART analysis of up to 12 samples. These easy-to-use cards ensure that no cross-contamination occurs. The twelve sample positions can be loaded automatically or manually, including standards for quantitation.</p> <p>QuickStrip Sample Cards require QuickStrip Module and automation.</p>
1898005	QuickStrip Sample Cards 5 box of 50	
1898006	QuickStrip Sample Cards 10 box of 50	
1898007	QuickStrip® HTS Sample Cards 1 box of 20	<p>QuickStrip HTS Sample Cards are designed to permit sampling with auto-pipettors and robotic sample pipetting systems such as the Apricot Design iPipettor. In this workflow, samples prepared as liquids in a 96-well plate are positioned on the sampling stage of the robotic pipetting station. An accurate sample volume is deposited onto each of the discrete screen positions. The sample is left to dry in the metal frame and then positioned on the robotic sample arm of the DART-HT for high throughput desorption ionization and MS analysis.</p>
1898008	QuickStrip HTS Sample Cards 5 box of 20	
1898009	QuickStrip HTS Sample Cards 10 box of 20	
1897996	DIP-it® Tips	<p>DIP-it Tips are used for the automated analysis of liquids with high reproducibility. The tips can be combined with the DIP-it holder on Bruker / IonSense DART ion source DART-JS or DART-JS-HTS.</p> <p>DIP-it Tips are compatible with Bruker / IonSense DART ion source DART-JS or DART-JS-HTS</p>

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