

GERSTEL



AUTOMATED SOLID PHASE SOLUTIONS

**MAXIMUM SAMPLE
THROUGHPUT
AND HIGH
REPRODUCIBILITY**

bekolut

FEEL FREE TO USE QUALITY!

AUTOMATED SPE

AUTOMATED SOLID PHASE EXTRACTION

For automated SPE using the GERSTEL MultiPurpose Sampler (MPS) system, we offer specific cartridges with volumes of 1, 3, and 6 mL. These are available with all commonly used SPE sorbents and also with customized sorbents. We also develop and manufacture tailor-made sorbents in cooperation with customers. Of course, we provide application support for all these products.

1. **Increased method reproducibility** by means of automation and positive pressure displacement
2. **High productivity** by using parallel SPE and analysis
3. **End-to-end automation** with the option to include further sample preparation steps as well as sample injection to **LC** or **GC** instruments.



POLYMER-BASED ION-EXCHANGERS

Polymeric Strong Anion Exchanger

Article number	Sorbent weight	Article description
B01-PAX-A006_MPS	60 mg	BEKOlut Leox AX, 1 mL , for GERSTEL MPS, 100/PK
B03-PAX-A020_MPS	200 mg	BEKOlut Leox AX, 3 mL , for GERSTEL MPS, 50/PK
B03-PAX-A050_MPS	500 mg	BEKOlut Leox AX, 3 mL , for GERSTEL MPS, 50/PK
B06-PAX-A020_MPS	200 mg	BEKOlut Leox AX, 6 mL , for GERSTEL MPS, 30/PK
B06-PAX-A050_MPS	500 mg	BEKOlut Leox AX, 6 mL , for GERSTEL MPS, 30/PK

Polymeric Weak Anion Exchanger

Article number	Sorbent weight	Article description
B01-WAX-A006_MPS	60 mg	BEKOlut Leox WAX, 1 mL , for GERSTEL MPS, 100/PK
B03-WAX-A020_MPS	200 mg	BEKOlut Leox WAX, 3 mL , for GERSTEL MPS, 50/PK
B03-WAX-A050_MPS	500 mg	BEKOlut Leox WAX, 3 mL , for GERSTEL MPS, 50/PK
B06-WAX-A020_MPS	200 mg	BEKOlut Leox WAX, 6 mL , for GERSTEL MPS, 30/PK
B06-WAX-A050_MPS	500 mg	BEKOlut Leox WAX, 6 mL , for GERSTEL MPS, 30/PK

Polymeric Strong Cation Exchanger

Article number	Sorbent weight	Article description
B01-PCX-A006_MPS	60 mg	BEKOlut Leox CX, 1 mL , for GERSTEL MPS, 100/PK
B03-PCX-A020_MPS	200 mg	BEKOlut Leox CX, 3 mL , for GERSTEL MPS, 50/PK
B03-PCX-A050_MPS	500 mg	BEKOlut Leox CX, 3 mL , for GERSTEL MPS, 50/PK
B06-PCX-A020_MPS	200 mg	BEKOlut Leox CX, 6 mL , for GERSTEL MPS, 30/PK
B06-PCX-A050_MPS	500 mg	BEKOlut Leox CX, 6 mL , for GERSTEL MPS, 30/PK

Polymeric Weak Cation Exchanger

Article number	Sorbent weight	Article description
B01-WCX-A006_MPS	60 mg	BEKOlut Leox WCX, 1 mL , for GERSTEL MPS, 100/PK
B03-WCX-A020_MPS	200 mg	BEKOlut Leox WCX, 3 mL , for GERSTEL MPS, 50/PK
B03-WCX-A050_MPS	500 mg	BEKOlut Leox WCX, 3 mL , for GERSTEL MPS, 50/PK
B06-WCX-A020_MPS	200 mg	BEKOlut Leox WCX, 6 mL , for GERSTEL MPS, 30/PK
B06-WCX-A050_MPS	500 mg	BEKOlut Leox WCX, 6 mL , for GERSTEL MPS, 30/PK

BEKOLut[®] MPS

NORMAL PHASE SORBENTS

ALOX Acidic		
Article number	Sorbent weight	Article description
B01-ALA-A010_MPS	100 mg	BEKOLut ALOX A, 1 mL , for GERSTEL MPS, 100/PK
B03-ALA-A020_MPS	200 mg	BEKOLut ALOX A, 3 mL , for GERSTEL MPS, 50/PK
B03-ALA-A050_MPS	500 mg	BEKOLut ALOX A, 3 mL , for GERSTEL MPS, 50/PK
B06-ALA-A020_MPS	200 mg	BEKOLut ALOX A, 6 mL , for GERSTEL MPS, 30/PK
B06-ALA-A050_MPS	500 mg	BEKOLut ALOX A, 6 mL , for GERSTEL MPS, 30/PK

ALOX Basic		
Article number	Sorbent weight	Article description
B01-ALB-A010_MPS	100 mg	BEKOLut ALOX B, 1 mL , for GERSTEL MPS, 100/PK
B03-ALB-A020_MPS	200 mg	BEKOLut ALOX B, 3 mL , for GERSTEL MPS, 50/PK
B03-ALB-A050_MPS	500 mg	BEKOLut ALOX B, 3 mL , for GERSTEL MPS, 50/PK
B06-ALB-A020_MPS	200 mg	BEKOLut ALOX B, 6 mL , for GERSTEL MPS, 30/PK
B06-ALB-A050_MPS	500 mg	BEKOLut ALOX B, 6 mL , for GERSTEL MPS, 30/PK

ALOX Neutral		
Article number	Sorbent weight	Article description
B01-ALN-A010_MPS	100 mg	BEKOLut ALOX N, 1 mL , for GERSTEL MPS, 100/PK
B03-ALN-A020_MPS	200 mg	BEKOLut ALOX N, 3 mL , for GERSTEL MPS, 50/PK
B03-ALN-A050_MPS	500 mg	BEKOLut ALOX N, 3 mL , for GERSTEL MPS, 50/PK
B06-ALN-A020_MPS	200 mg	BEKOLut ALOX N, 6 mL , for GERSTEL MPS, 30/PK
B06-ALN-A050_MPS	500 mg	BEKOLut ALOX N, 6 mL , for GERSTEL MPS, 30/PK

NORMAL PHASE SORBENTS

Silica Gel		
Article number	Sorbent weight	Article description
B01-400-A010_MPS	100 mg	BEKOLut SI, 1 mL , for GERSTEL MPS, 100/PK
B03-400-A020_MPS	200 mg	BEKOLut SI, 3 mL , for GERSTEL MPS, 50/PK
B03-400-A050_MPS	500 mg	BEKOLut SI, 3 mL , for GERSTEL MPS, 50/PK
B06-400-A020_MPS	200 mg	BEKOLut SI, 6 mL , for GERSTEL MPS, 30/PK
B06-400-A050_MPS	500 mg	BEKOLut SI, 6 mL , for GERSTEL MPS, 30/PK

Florisil [®] PR for residue analysis		
Article number	Sorbent weight	Article description
B03-500-A050_MPS	500 mg	BEKOLut Florisil [®] PR, 3 mL , for GERSTEL MPS, 50/PK
B06-500-A100_MPS	1000 mg	BEKOLut Florisil [®] PR, 6 mL , for GERSTEL MPS, 30/PK

SILICA-BASED ION EXCHANGERS

Silica-based Anion Exchanger

Article number	Sorbent weight	Article description
B01-SAX-A010_MPS	100 mg	BEKOLut SAX, 1 mL , for GERSTEL MPS, 100/PK
B03-SAX-A020_MPS	200 mg	BEKOLut SAX, 3 mL , for GERSTEL MPS, 50/PK
B03-SAX-A050_MPS	500 mg	BEKOLut SAX, 3 mL , for GERSTEL MPS, 50/PK
B06-SAX-A020_MPS	200 mg	BEKOLut SAX, 6 mL , for GERSTEL MPS, 30/PK
B06-SAX-A050_MPS	500 mg	BEKOLut SAX, 6 mL , for GERSTEL MPS, 30/PK

Silica-based Cation Exchanger

Article number	Sorbent weight	Article description
B01-SCX-A010_MPS	100 mg	BEKOLut SCX, 1 mL , for GERSTEL MPS, 100/PK
B03-SCX-A020_MPS	200 mg	BEKOLut SCX, 3 mL , for GERSTEL MPS, 50/PK
B03-SCX-A050_MPS	500 mg	BEKOLut SCX, 3 mL , for GERSTEL MPS, 50/PK
B06-SCX-A020_MPS	200 mg	BEKOLut SCX, 6 mL , for GERSTEL MPS, 30/PK
B06-SCX-A050_MPS	500 mg	BEKOLut SCX, 6 mL , for GERSTEL MPS, 30/PK

REVERSED PHASE SORBENTS

C8

Article number	Sorbent weight	Article description
B01-200-A010_MPS	100 mg	BEKOLut C8, 1 mL , for GERSTEL MPS, 100/PK
B03-200-A020_MPS	200 mg	BEKOLut C8, 3 mL , for GERSTEL MPS, 50/PK
B03-200-A050_MPS	500 mg	BEKOLut C8, 3 mL , for GERSTEL MPS, 50/PK
B06-200-A020_MPS	200 mg	BEKOLut C8, 6 mL , for GERSTEL MPS, 30/PK
B06-200-A050_MPS	500 mg	BEKOLut C8, 6 mL , for GERSTEL MPS, 30/PK

C18

Article number	Sorbent weight	Article description
B01-100-A010_MPS	100 mg	BEKOLut C18, 1 mL , for GERSTEL MPS, 100/PK
B03-100-A020_MPS	200 mg	BEKOLut C18, 3 mL , for GERSTEL MPS, 50/PK
B03-100-A050_MPS	500 mg	BEKOLut C18, 3 mL , for GERSTEL MPS, 50/PK
B06-100-A020_MPS	200 mg	BEKOLut C18, 6 mL , for GERSTEL MPS, 30/PK
B06-100-A050_MPS	500 mg	BEKOLut C18, 6 mL , for GERSTEL MPS, 30/PK

* Also other sorbents, filling quantities, and cartridge volumes are available on request / 5 sample cartridges per article are free-of-charge / Minimum order quantity (3 boxes)

BEKOLut[®] MPS

REVERSED PHASE SORBENTS

C18 endcapped		
Article number	Sorbent weight	Article description
B01-101-A010_MPS	100 mg	BEKOLut C18e, 1 mL , for GERSTEL MPS, 100/PK
B03-101-A020_MPS	200 mg	BEKOLut C18e, 3 mL , for GERSTEL MPS, 50/PK
B03-101-A050_MPS	500 mg	BEKOLut C18e, 3 mL , for GERSTEL MPS, 50/PK
B06-101-A020_MPS	200 mg	BEKOLut C18e, 6 mL , for GERSTEL MPS, 30/PK
B06-101-A050_MPS	500 mg	BEKOLut C18e, 6 mL , for GERSTEL MPS, 30/PK

MEDIUM POLAR PHASE SORBENTS

Aminopropyl bonded Phase		
Article number	Sorbent weight	Article description
B01-800-A010_MPS	100 mg	BEKOLut NH ₂ , 1 mL , for GERSTEL MPS, 100/PK
B03-800-A020_MPS	200 mg	BEKOLut NH ₂ , 3 mL , for GERSTEL MPS, 50/PK
B03-800-A050_MPS	500 mg	BEKOLut NH ₂ , 3 mL , for GERSTEL MPS, 50/PK
B06-800-A020_MPS	200 mg	BEKOLut NH ₂ , 6 mL , for GERSTEL MPS, 30/PK
B06-800-A050_MPS	500 mg	BEKOLut NH ₂ , 6 mL , for GERSTEL MPS, 30/PK
B06-800-A100_MPS	1000 mg	BEKOLut NH ₂ , 6 mL , for GERSTEL MPS, 30/PK

PSA (Primary Secondary Amine)		
Article number	Sorbent weight	Article description
B01-PSA-A010_MPS	100 mg	BEKOLut PSA, 1 mL , for GERSTEL MPS, 100/PK
B03-PSA-A020_MPS	200 mg	BEKOLut PSA, 3 mL , for GERSTEL MPS, 50/PK
B03-PSA-A050_MPS	500 mg	BEKOLut PSA, 3 mL , for GERSTEL MPS, 50/PK
B06-PSA-A020_MPS	200 mg	BEKOLut PSA, 6 mL , for GERSTEL MPS, 30/PK
B06-PSA-A050_MPS	500 mg	BEKOLut PSA, 6 mL , for GERSTEL MPS, 30/PK
B06-PSA-A100_MPS	1000 mg	BEKOLut NH ₂ , 6 mL , for GERSTEL MPS, 30/PK

Cyano (CN)		
Article number	Sorbent weight	Article description
B01-900-A010_MPS	100 mg	BEKOLut Cyano, 1 mL , for GERSTEL MPS, 100/PK
B03-900-A020_MPS	200 mg	BEKOLut Cyano, 3 mL , for GERSTEL MPS, 50/PK
B03-900-A050_MPS	500 mg	BEKOLut Cyano, 3 mL , for GERSTEL MPS, 50/PK
B06-900-A050_MPS	500 mg	BEKOLut Cyano, 6 mL , for GERSTEL MPS, 30/PK
B06-900-A100_MPS	1000 mg	BEKOLut Cyano, 6 mL , for GERSTEL MPS, 30/PK

SPECIALTY PHASES

Polymer for PAH Analysis from Edible Oils

Article number	Sorbent weight	Article description
B01-P05-A006_MPS	60 mg	BEKOlut LB10, 1 mL , for GERSTEL MPS, 100/PK
B06-P05-A050_MPS	500 mg	BEKOlut LB10, 6 mL , for GERSTEL MPS, 30/PK

Polymer for Pharmaceuticals & Antibiotics

Article number	Sorbent weight	Article description
B01-XTR-A006_MPS	60 mg	BEKOlut HLB XTRA, 1 mL , for GERSTEL MPS, 100/PK
B03-XTR-A020_MPS	200 mg	BEKOlut HLB XTRA, 3 mL , for GERSTEL MPS, 50/PK
B03-XTR-A050_MPS	500 mg	BEKOlut HLB XTRA, 3 mL , for GERSTEL MPS, 50/PK
B06-XTR-A020_MPS	200 mg	BEKOlut HLB XTRA, 3 mL , for GERSTEL MPS, 50/PK
B06-XTR-A050_MPS	500 mg	BEKOlut HLB XTRA, 6 mL , for GERSTEL MPS, 30/PK

Polymer for Polar Compounds from Water & Biological Fluids

Article number	Sorbent weight	Article description
B01-P06-A006_MPS	60 mg	BEKOlut Leox Plus, 1 mL , for GERSTEL MPS, 100/PK
B03-P06-A020_MPS	200 mg	BEKOlut Leox Plus, 3 mL , for GERSTEL MPS, 50/PK
B03-P06-A050_MPS	500 mg	BEKOlut Leox Plus, 3 mL , for GERSTEL MPS, 50/PK
B06-P06-A020_MPS	200 mg	BEKOlut Leox Plus, 6 mL , for GERSTEL MPS, 30/PK
B06-P06-A050_MPS	500 mg	BEKOlut Leox Plus, 6 mL , for GERSTEL MPS, 30/PK

Polymer for Vitamin K Analysis

Article number	Sorbent weight	Article description
B01-P01-A006_MPS	60 mg	BEKOlut Leox, 1 mL , for GERSTEL MPS, 100/PK
B03-P01-A020_MPS	200 mg	BEKOlut Leox, 3 mL , for GERSTEL MPS, 50/PK
B03-P01-A050_MPS	500 mg	BEKOlut Leox, 3 mL , for GERSTEL MPS, 50/PK
B06-P01-A020_MPS	200 mg	BEKOlut Leox, 6 mL , for GERSTEL MPS, 30/PK
B06-P01-A050_MPS	500 mg	BEKOlut Leox, 6 mL , for GERSTEL MPS, 30/PK

DEVELOPMENT KITS

Evaluation kits are available upon request. You can either test hydrophobic, polar, silica or polymeric based ion-exchangers as well as speciality phases. Each development kit includes 5 MPS cartridges free-of-charge. Cartridge volume and bed mass are freely selectable.

SPECIALTY PHASES FOR MYCOTOXIN ANALYSIS

Mycotoxin/Multi-Mycotoxin		
Article number	Sorbent weight	Article description
B03-MYC-A050_MPS	500 mg	BEKOLut Mycotoxin, 3 mL , for GERSTEL MPS, 50/PK
B06-MYC-A050_MPS	500 mg	BEKOLut Mycotoxin, 6 mL , for GERSTEL MPS, 30/PK
B06-MYC-A100_MPS	1000 mg	BEKOLut Mycotoxin, 6mL , for GERSTEL MPS, 30/PK
B06-QUE-MYC_MPS	BEKOLut Multi-Mycotoxin, 6 mL , for GERSTEL MPS, 30/PK	

MIXED-MODE-PHASES FOR TOXICOLOGICAL ANALYSIS

Basic Drugs from Biological fluids		
Article number	Sorbent weight	Article description
B01-MBD-A010_MPS	100 mg	BEKOLut Basic Drugs, 1 mL , for GERSTEL MPS, 100/PK
B03-MBD-A020_MPS	200 mg	BEKOLut Basic Drugs, 3 mL , for GERSTEL MPS, 50/PK
B03-MBD-A050_MPS	500 mg	BEKOLut Basic Drugs, 3 mL , for GERSTEL MPS, 50/PK
B06-MBD-A050_MPS	500 mg	BEKOLut Basic Drugs, 6 mL , for GERSTEL MPS, 30/PK
B06-MBD-A100_MPS	1000 mg	BEKOLut Basic Drugs, 6 mL , for GERSTEL MPS, 30/PK

Acidic Drugs from Biological Fluids		
Article number	Sorbent weight	Article description
B01-MAD-A010_MPS	100 mg	BEKOLut Acidic Drugs, 1 mL , for GERSTEL MPS, 100/PK
B03-MAD-A020_MPS	200 mg	BEKOLut Acidic Drugs, 3 mL , for GERSTEL MPS, 50/PK
B03-MAD-A050_MPS	500 mg	BEKOLut Acidic Drugs, 3 mL , for GERSTEL MPS, 50/PK
B06-MAD-A050_MPS	500 mg	BEKOLut Acidic Drugs, 6 mL , for GERSTEL MPS, 30/PK
B06-MAD-A100_MPS	1000 mg	BEKOLut Acidic Drugs, 6 mL , for GERSTEL MPS, 30/PK

Basic and Acidic Drugs from Biological Fluids		
Article number	Sorbent weight	Article description
B01-TBA-A010_MPS	100 mg	BEKOLut Triple Basic Acid, 1 mL , for GERSTEL MPS, 100/PK
B03-TBA-A020_MPS	200 mg	BEKOLut Triple Basic Acid, 3 mL , for GERSTEL MPS, 50/PK
B03-TBA-A050_MPS	500 mg	BEKOLut Triple Basic Acid, 3 mL , for GERSTEL MPS, 50/PK
B06-TBA-A050_MPS	500 mg	BEKOLut Triple Basic Acid, 6 mL , for GERSTEL MPS, 30/PK
B06-TBA-A100_MPS	1000 mg	BEKOLut Triple Basic Acid, 6 mL , for GERSTEL MPS, 30/PK

AUTOMATED SOLID PHASE EXTRACTION SPE



- 1.** Standard SPE cartridges (1, 3 or 6 mL) are available with pre-installed transport adapters for easiest automation using the GERSTEL SPE. Main benefit is that the GERSTEL SPE cartridges have practically no dead volume.
- 2.** During conditioning, cartridges are prepared for sample loading. Specific activation steps can also be performed by the GERSTEL SPE, in many cases without adding to the overall analysis time.
- 3.** Loading samples with precise volumes and constant flow rates leads to highly reproducible results, even if there are variations in the packing density of the solid phase material or in the amount of solid matrix in the samples.
- 4.** Rinsing steps can be performed in order to remove interferences or to introduce a solvent that matches the eluting reagent. Up to 12 different solvents can be used, providing unlimited flexibility and enabling the implementation of highly complex rinse cycles.
- 5.** Drying the cartridge prior to elution can be helpful in some cases. This enables the analyst to more accurately control the volume and composition of the eluent. The GERSTEL SPE lets you automate this intermediate step by a mouse click.
- 6.** Finally, retained compounds are eluted from the SPE cartridge into a closed vial via a disposable syringe needle. This eliminates the risk of cross contamination. The obtained eluate can be concentrated by solvent evaporation directly in the collection vial, while inside the SPE module.

GERSTEL

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Information

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