Biotage[®] Extrahera[™] LV-200 Sample Prep Workstation

Low Volumes – Big Results





About Biotage

Biotage is a Global Impact Tech Company committed to solving society's problems. We offer workflow solutions and products to customers in drug discovery and development, analytical testing and water and environmental testing.

Biotage is contributing to sustainable science with the goal to make the world healthier, greener and cleaner – HumanKind Unlimited.

Our customers span a broad range of market segments including pharmaceutical, biotech, contract research and contract manufacturers as well as clinical, forensic and academic laboratories in addition to organizations focused on food safety, clean water and environmental sustainability.

Vision

We help shape the sustainable science of tomorrow and our future society for the benefit of humankind.

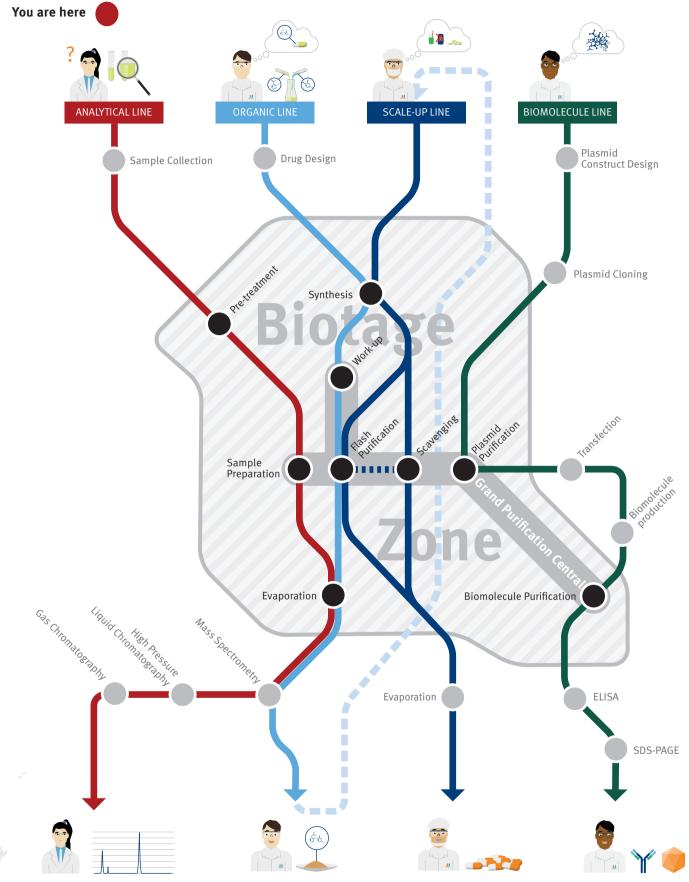
Mission

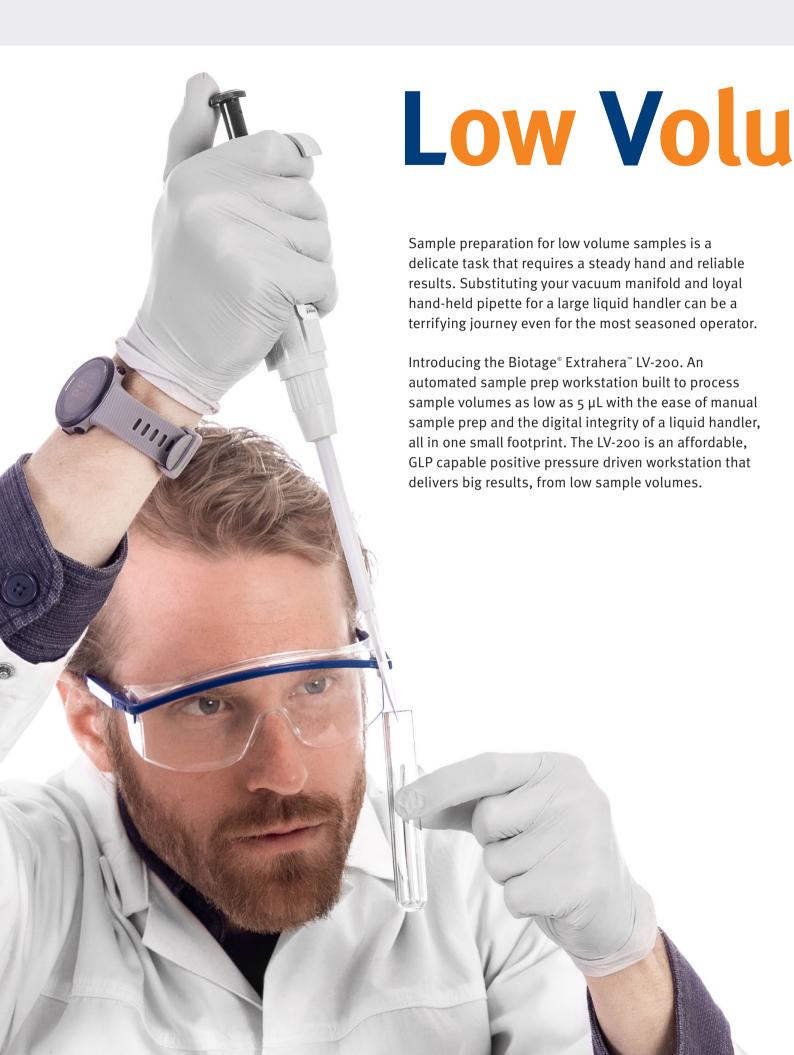
Our mission is to help our customers to make the world more sustainable, healthier, and cleaner.

Biotage is headquartered in Uppsala in Sweden and employs approximately 485 people worldwide. The Group had sales of 1,092 MSEK in 2020 and our products are sold in more than 70 countries. Biotage's share (BIOT) is listed in the Mid Cap segment on the NASDAQ Stockholm.









mes, Big Results







Point, Press, and Run

Managing your LV-200 is made easy using Biotage's clean, simple, and intuitive user interface. Creating and running methods with your fingertips has never been better, just select your sample prep technique and go.

Need the advantage of GLP traceability and data integrity without the complexity of GLP? Yep, we have that option too. With or without the GLP upgrade, LV-200 doesn't require a software engineer to realize the system's full potential: no programming, no simulator software, just your intuition.

Best of all, you won't have to rely on costly and specialized education courses to bring new team members up to speed. You probably won't need the user manual – but we made one for you, just in case.

At Biotage, we believe in making automation easy.









Consumables and Accessories

Power Your Extrahera



Biotage® Mikro SPE Plates

For elution volumes as low as 20 µL. Excellent sample clean-up while enhancing sample preparation workflow and delivering reproducible, high sensitivity analytical results. Packed with 2 mg of wettable polymeric EVOLUTE® sorbents.



ISOLUTE® SLE+ Supported Liquid Extraction

Load-Wait-Elute Sample Preparation. Designed to provide stress-free extraction of analytes from biological fluids, with high analyte recoveries, and clean protein and phospholipid free extracts. Methods are easy to develop, and automation is simple.



ISOLUTE® PPT+ Protein Precipitation Plates

Fast, Simple Protein Removal. The optimized filtration system provides an easy to automate solution for efficient protein removal from biological fluid samples. The procedure is streamlined, with no awkward off-line steps.



EVOLUTE® EXPRESS SPE Plates

Load-Wash-Elute sample preparation, developed specifically for analyte quantification by LC-MS/MS. Packed with advanced water-wettable polymer-based sorbents for extracting drugs from biological fluids.



EVOLUTE® HYDRO SPE Plates

Enabling in-situ (in-well) hydrolysis of urine samples, reducing sample handling and improving efficiency.



ISOLUTE® PLD+

Effortlessly Enhance Analyte Sensitivity by removing proteins and phospholipids. Effective but extremely simple sample clean-up for LC-MS/MS analysis. Requiring next to no method development, ISOLUTE PLD+ can be integrated quickly and easily into routine workflow, increasing productivity and reducing instrument downtime.

96 Well Collection Plates







1 mL Square



2 mL Square



2 mL Round

Pipette Tips



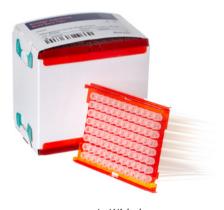
50 µL



200 µL



1000 μL



1000 μ L, Wide bore

Configuration Kit

- 96 Positions

- » Pressure Head, 96 Positions
- » Self Adhesive Seal, 96 Positions
- » 96 Position Flow Through Plate
- 96 Position Collection Plate
- 96 Well, ISOLUTE® C18, 50 mg Plate
- Extrahera Calibration Vials, 1 mL x 96



Pressure Head Seal

Self adhesive



Technical Specifications

Liquid Handling

········	Pipette Pump Capacity	5-800 μL
		Up For the 50 μL pipette tip (P/N 417008):
	Pipetting specifications	At 5 μ L: $\pm 5.0\%$ accuracy and 5.0% CV At 25 μ L: $\pm 4.0\%$ accuracy and 2.5% CV At 50 μ L: $\pm 2.5\%$ accuracy and 2.0% CV
		For the 200 µL pipette tip (P/N 417009):
		At 20 μ L: $\pm 5.0\%$ accuracy and 5.0% CV At 100 μ L: $\pm 2.0\%$ accuracy and 1.5% CV At 200 μ L: $\pm 1.5\%$ accuracy and 1.0% CV
	Solvent capacity	5 solvent pumps with automatic feed in from external reservoirs, with additional capacity for an extra 5 manually filled solvent reservoirs (5 \times 100 mL)
<u> </u>	Pressure unit	Positive Pressure Unit:
		Processing: 0-5 Bar (0.1 Bar Increments) Plate Dry: 5 Bar at 600 mL/min

Sample Processor

	Format	96-well extraction plates
		» 96-array plates for 1 and 2 mL wells » 96-position extraction racks for 1 mL (tabless) columns (A format) » 96-position tip racks for 200 μ L, and 300 μ L, DFE column tips
*	Plate positions	6 position upper deck used for sample, extraction plates, pipette tips and solvents. 4 positions on lower deck carousel for multiple elution and waste.
III		Disposable Sample Tips (Position 2): 50, 200, 1000 μ L clear tips, and 1000 μ L clear Wide Bore tips.
	Disposable tips	Disposable Solvent Tips (Position 1): 50, 200, 1000 µL clear tips.
		Disposable Solvent Tips (Position 6): 50 and 200 µL clear tips only.

Pressurized air

supply

System Requirements					
	Temperature	Operating Temperature: 18 °C to 32 °C Storage and transportation temperature: -25 °C to 60 °C			
8	Humidity	10% to 90% RH			
Z	Electrical supply	100 to 240 V~, 50/60 Hz			
	Fuses	T4A at the power inlet (2 required)			
4	Maximum power consumed	300 VA			

>5 L/min (0.18 cubic feet/min), 6 \pm 0.2 bar (0.6 \pm 0.02 MPa; 87 \pm 3 psi)

AIR port requirements: >5 L/min (0.18 cubic feet/min), 6 ± 0.2 bar (0.6 ± 0.02 MPa; 87 ± 3 psi)

N2 port requirements: 1 L/min (0.04 cubic feet/min) during processing and 70 L/min (2.5 cubic feet/min) during plate dry, 6 ± 0.2 bar (0.6 ± 0.02 MPa, 87 ± 3 psi)

Vacuum supply

Partial pressure range: < 500 mbar (50 kPa; 7 psi)
Flow rate: ≥ 8.3 L/min (0.29 cubic feet/min)

Weight

80 kg (176 lbs)

Without touch screen: 610 x 510 x 730 mm (24.0" x 22.1" x 28.7")

With touch screen: 860 x 570 x 730 mm (33.8" x 22.4" x 28.7")

Wax sound level

65 dB(A)

Interfaces

Touch screen 12" Capacitive Touch

Ethernet LAN Complies with IEEE 802.3 (ANSI 8802-3)

USB 2.0

Other

GLP

GLP Sofware Ready

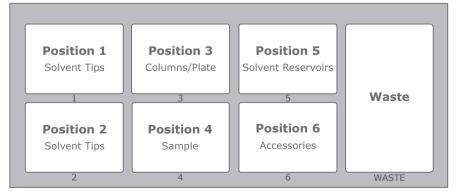
Certifications CE, CSA certified



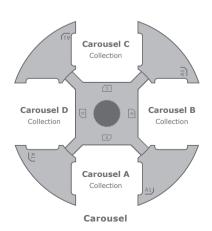
Ordering Information

Part Number	Item Description	Qty			
System					
417000	Biotage® Extrahera™ LV-200	1			
Accessories					
415040	Configuration Kit – 96 Positions Dual Flow	1			
415579	Solvent Safety Kit – GL45 Caps, Filters, & 1 L Glass Bottle (5/qty)	1			
356330SP	Vacuum Pump ME1C for Waste	1			
Accessories for	Positions 1 & 2				
417008	Pipette Tips, Clear, 50 μL (10 x Pk/96)	1			
417009	Pipette Tips, Clear, 200 μL (10 x Pk/96)	1			
414141	Pipette Tips, Clear, 1000 μL (10 x Pk/96)	1			
416444	Pipette Tips, Clear, 1000 μ L, wide bore (10 x Pk/96)	1			
Accessories for Position 3					
414703SP	Spacer for mElution and SPEC Fixed Well Plates	1			
414253SP	Column Rack 96 x 1 mL (Tabless)	1			
Accessories for	Position 4				
414702SP	Matrix Tube Retaining Plate	1			
121-5201	Sample/Collection Plate, 350 μL, Square	50			
121-5202	Sample/Collection Plate, 1 mL, Square	50			
121-5203	Sample/Collection Plate, 2 mL, Square	50			
121-5213	Sample/Collection Plate, 2 mL, Round	50			
Accessories for	, ,				
	, ,	25			
Accessories for	Position 6				
Accessories for 414045SP	Position 6 Solvent Reservoirs, 25 mL	25 1 1			
Accessories for 414045SP 413991SP	Position 6 Solvent Reservoirs, 25 mL Solvent Rack, 25 & 40 mL	25 1			

Part Number	Item Description	Qty				
Accessories for Carousel						
416868SP	Dual Flow Chromatography (DFE) Spacer	1				
414201SP	Flow Through Plate 96	1				
121-5201	Sample/Collection Plate, 350 μL, Square	50				
121-5202	Sample/Collection Plate, 1 mL, Square	50				
121-5203	Sample/Collection Plate, 2 mL, Square	50				
121-5213	Sample/Collection Plate, 2 mL, Round	50				
Software Upgrad	de & Miscellaneous Accessories					
415149	Handheld Barcode Scanner	1				
417508SP	LV-200 GLP Package, On Site Activation	1				
415604SP	Pressure Head Seal, Self-Adhesive,	1				
	96-Positions					
Consumables for	Position 4					
600-0002-LVP	Biotage® Mikro ABN plate, 2 mg	1				
601-0002-LVP	Biotage® Mikro CX plate, 2 mg	1				
602-0002-LVP	Biotage® Mikro WCX plate, 2 mg	1				
603-0002-LVP	Biotage® Mikro AX plate, 2 mg	1				
604-0002-LVP	Biotage® Mikro WAX plate, 2 mg	1				
600-0010-PX01	EVOLUTE® EXPRESS ABN plate, 10 mg	1				
601-0010-PX01	EVOLUTE® EXPRESS CX plate, 10 mg	1				
602-0010-PX01	EVOLUTE® EXPRESS WCX plate, 10 mg	1				
603-0010-PX01	EVOLUTE® EXPRESS AX plate, 10 mg	1				
604-0010-PX01	EVOLUTE® EXPRESS WAX plate, 10 mg	1				
820-0200-P01	ISOLUTE® SLE+ 200 µL plate	1				
820-0400-P01	ISOLUTE® SLE+ 400 µL plate	1				
820-0055-BG	ISOLUTE® SLE+ 400 µL Sample Volume (Tabless)	50				
120-2040-P01	ISOLUTE® PPT+ Fixed Well plate	1				
918-0050-P01	ISOLUTE® PLD+ Protein & Phospholipid	1				
	Removal Plate					









Dedicated Support

Biotage Global Service Packages

First Year Maintenance Plan

First year coverage package that includes installation and familiarization, preventive maintenance and a 3-day response time.

Part number: SER-EX-FYMP

Biotage First Year Maintenance Plan (PPS480)



First Year Maintenance Plan with Qualification

This is a first-year coverage package that includes installation with qualification and familiarization, preventative maintenance, and a 3-day response

Part number: SER-EX-FYMP-Q

Qualification (IQ/QQ)

This is an add-on compliance package for the system that is highly desirable for CRO and Pharm industries.

Part number: SER-EX-IQOQ

Qualification for GLP (IQ/QQ)

This is an add-on compliance package for the Software that is highly desirable for CRO and Pharm industries and is specific for system with the GLP license activated. It is not the same as the SER-EX-IQOQ.

Part number: SER-EX-GLP-IQOQ

Biotage 1-Point Support

biotage.com/service





Your Complete Partner for Effective Chemistry

Biotage is a worldwide supplier of instruments and accessories designed to facilitate the work of laboratory and process chemists. With our deep knowledge of the industry, academic contacts and in-house R&D teams, we can deliver the best solutions to your challenges. We take great pride in our flexibility and ability to meet our customer's individual needs. With strong foundations in both analytical, organic and process chemistry, we can offer the widest range of solutions available on the market.

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