

Biotage® Selekt ELSD

Biotage® Selekt ELSD is an advanced evaporative light-scattering detector, offering effortless and robust detection of compounds that lack chromophores. This modular, fully automated solution is easy to install, and it seamlessly operates with our Biotage® Selekt family of purification systems. Biotage® Selekt ELSD fully supports your system's flow rate and column selection, ensuring you maintain all system capabilities while enhancing its functionality.

Benefits with Biotage® Selekt ELSD

Efficient Detection

When it comes to detection, sensitivity is key. With Biotage® Selekt ELSD you can identify different types of compounds and impurities easily. You can also combine it with high-sensitivity UV for enhanced detection capabilities. Automatic gain adjustment ensures you get a comprehensive view of your sample peaks, enhancing isolation accuracy.

Ease of Use

Managing your runs is straightforward. Biotage® Selekt ELSD is fully automated and seamlessly integrated into your Biotage® Selekt system software. Maximize efficiency across all sample types with our pre-defined methods or customize your own.

Robust Purification

With the micro-liter sampling support, you'll achieve high recovery rates with minimal sample consumption. The combination of using a carrier solvent along with automatic cleaning functionality keeps everything running smoothly. This prevents clogs and reduces the risk of failed runs, while the need for maintenance is minimal.



Technical Specifications

Dimensions	380 x 340 x 140 mm (15.0" x 13.4" x 5.5")
Weight	9 kg (20 lbs)
Materials	The wetted parts of the system consist of stainless steel, FFKM, PEEK, PP, PE, FEP, PTFE, silica, carbon fiber filled PTFE, and fused silica, which are not affected by common chromatographic solvents.
Flow Rate	Selekt: 1 to 300 mL/min ELSD during prime: 150 mL/min ELSD during run: 0.15 mL/min
Makeup Pump Pressure Range	0 to 10 bar (0 to 1000 kPa; 0 to 145 psi)
Gas Supply	Gas: Nitrogen. Air can be used with nonflammable solvents. Pressure: 4 to 10 bar (0.4 to 1.0 MPa; 58 to 145 psi). Recommended is 6 bar (0.6 MPa; 87 psi). Purity: >98% purity. Particle size: Filtered to 0.01 µm. Tubing: 4 mm (0.15748") outer diameter. Max consumption: 1.5 Ls/min.
Detection	High sensitivity photodiode
Fume Hood/Ventilation System	A laboratory fume hood with the capacity to handle hazardous exhaust vapors from Biotage® Selekt ELSD, leakage of solvents, and provide suitable airflow to prevent the build-up of flammable vapors.
Ambient Temperature	Operating: 15°C to 32°C (59°F to 90°F) Storage and transportation: -25°C to 60°C (-13°F to 140°F)
Humidity	20% to 90% RH (non-condensing)
Location	Indoor use only. No wet locations.
Electrical Supply	24 V (through the Biotage® Selekt or Biotage® Selekt Enkel system)
Max Power Consumed	3 A
Drift Tube Temperature	20°C to 100°C (68 to 212°F) Minimum guaranteed temperature is 5°C (9°F) above ambient temperature.
Light Source	Proprietary Embedded Blue Light Emitting Diode Source design (Embedded, 470 nm, 1.6 mcd typ. max, CW), with elapsed time counter 5000 h lifetime. The ELSD lamp is turned off when the ELSD is not used (i.e. when in Ready, Sleep Mode, and Error state).
Gas and Fluid Ports	» Gas inlet (N2) » Make-up solvent inlet (S) and waste outlet (W). » Selekt main flow inlet (UVin) and outlet (UVout).
Communication Ports	» CAN IN for connecting the ELSD to a Biotage® Selekt or Biotage® Selekt Enkel system. » CAN OUT for connecting additional equipment from Biotage, e.g. Biotage® Liquid Level Sensor.
Certificate	CE and FCC marked. CB and NRTL certified.

Biotage® Selekt ELSD Accessories

Only Biotage consumables and accessories can be used with the system.

Part No.	Description	Qty
418800	Biotage® Selekt ELSD	1
419145SP	Rail Tube Clip	1
419275SP	Gas Pressure Inlet Adapter 6 to 4 mm	1
416440SP	Filter Unit with Pressure Regulator (6 mm OD)	1
352281SP	Pressure Regulator (6 mm OD)	1
416441SP	Air Dryer (6 mm OD)	1
418819SP	Counterweight	1

Biotage® Selekt ELSD Consumables

Part No.	Description	Qty
419276SP	ELSD Filter Kit including PEEK Capillary (2) and Filter (2)	1
419277SP	ELSD Splitter Stator and Rotor	1
417440SP	Inline Check Valve for Pump Version II	4

Biotage® Selekt ELSD Spare Parts

Part No.	Description	Qty
417019SP	One Solvent Inlet Line and Filter	1
417022SP	Waste Outlet Tube Extension	1
417572SP	Nebulizer Filter Unit	1
418574SP	CAN Power Cable	1
419278SP	ELSD Tube Kit incl the 2 x UV to ELSD Connection Tube	1
413022SP	Solvent Tube Holder 3/16"	10

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