

# Biotage® Liquid Level Sensor

Biotage® Liquid Level Sensor is an innovative technology\*, providing true solvent management by streamlining solvent use and waste management before, during, and after your run. Compatible with our Biotage® Selekt family of purification systems, our Liquid Level Sensor is designed to enhance efficiency in your laboratory. This gives you the confidence that your separation will not run out of solvent or overflow the waste container.

## Selection table for upgrading your Biotage® Selekt system with Biotage® Liquid Level Sensor

### 1. Select the Biotage® Selekt system for the Biotage® Liquid Level Sensor upgrade

- a. Biotage® Selekt Liquid Level Sensor Kit, 418776
- b. Biotage® Selekt Enkel Liquid Level Sensor Kit, 418843

### 2. Select reservoirs for solvent and waste use

- a. Biotage pre-calibrated reservoirs
  - i. Reservoir 5L, GL45, Qty. 5, 418523SP
  - ii. Reservoir 10L, GL45, Qty. 1, 418524SP  
Order 3a, to get the correct Biotage® Selekt Liquid Level Sensor cap.
- b. Customer reservoirs. Need to be calibrated.

### 3. Select cap based on the reservoir thread size

- a. GL45 reservoir thread
  - i. GL45 Cap, Qty. 5, 418528SP
- b. 38-430 reservoir thread
  - i. 38-430 Cap, Qty. 5, 418529SP
- c. Other thread
  - i. Universal Cap Adapter, Qty. 5, 418571SP  
If used, ordered together with 38-430 Cap.



## Benefits with Biotage® Liquid Level Sensor

### Real-Time Solvent and Waste Monitoring

Biotage® Liquid Level Sensor constantly keeps track of your solvent and waste volumes, enabling full control over your liquid handling. You will know from the start the required solvent and expected waste volumes and the sensor monitors liquid levels throughout your run.

### Safe Liquid Handling

There is no risk of a failed run due to inadequate liquid handling, as Biotage® Liquid Level Sensor pauses the process and notifies you to fill a solvent reservoir or empty the waste reservoir. Our tube holder keeps the solvent filter on the bottom of the reservoir and the waste line in position, so you don't have to worry about aspirating air or spilling liquid.

### Workflow Flexibility

For a true plug and play experience, use Biotage® Liquid Level Sensor with our pre-calibrated Biotage reservoirs. You can also use standard reservoirs with GL45 and 38-430 thread sizes, or other sizes with the help of our Universal Cap Adapter. For additional convenience, calibration files for reservoirs can be transferred between systems, so you only need to calibrate your reservoir once.

\*Biotage® Liquid Level Sensor is pending a patent.

## Reservoirs

Biotage provides pre-calibrated Biotage reservoirs for a true plug and play experience.



Reservoir 5 L, GL45



Reservoir 10 L, GL45

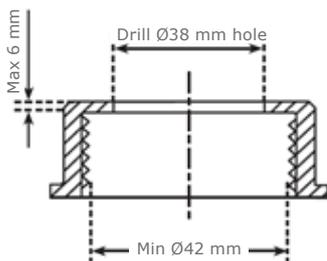
## Caps

Biotage® Liquid Level Sensor is supported by caps for GL45 and 38-430 reservoirs.



## Universal Cap Adapter

For reservoirs that do not have the GL45 or 38-430 reservoir thread.



**Figure 1.** Universal Cap Adapter can be used with reservoirs that have a cap with 1) an inner diameter of 42 mm or larger and 2) a maximum top thickness of 6 mm.



**Figure 2.** A: Universal Cap Adapter. B: The cap with the 38 mm hole on top of the adapter. C: The 38-430 cap attached to the adapter and the modified cap.

## Accessories

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

## Accessories and Spare Parts

Part No.	Description	Qty.
418776	Biotage® Selekt Liquid Level Sensor Kit	1
418843	Biotage® Selekt Enkel Liquid Level Sensor Kit	1
418758SP	Biotage® Liquid Level Sensor Hub	1
418536SP	Biotage® Liquid Level Sensor	1
418777SP	Tube holder	5
418523SP	Reservoir 5 L, GL45	5
418524SP	Reservoir 10 L, GL45	1
418528SP	GL45 Cap	5
418529SP	38-430 Cap	5
418571SP	Universal Cap Adapter	5
418841SP	Funnel	1
418956SP	Cable and tube support kit	1

## Technical Specifications

### General System Specifications

Fume Hood/ Ventilation System	A laboratory fume hood with the capacity to handle leakage of solvents and provide suitable airflow to prevent the build-up of flammable vapors.
Location	Indoor use only. No wet locations. Biotage® Liquid Level Sensor must be placed on a stable, and flat level surface.
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).
Altitude	Operation: up to 2000 m (6562 ft).
Pollution Degree	The Biotage® Liquid Level Sensor kit shall be installed and used in a level 2 environment in accordance with EN 60664-1.
Electrical Supply	24 V
Max Power Consumed	500 mA
Materials	PEEK (tube holder), PPS (sensor house, cap, and universal cap adapter), PP (hub), TPE partly coated with PO (sensor cable)
Weight	Hub: 133.5 g (0.29 lbs) Sensor: 64.2 g (0.14 lbs)
Dimensions	Hub: 157 x 85 x 32 mm (6.2" x 3.3" x 1.3") Sensor: 63 x 55 x 27 mm (2.5" x 2.2" x 1.1")
IP classification	IP54 for the sensor
RF Type (Sensor)	Transceiver
Operating frequency range	57 to 64 GHz
Radar Peak Output Power	18 dBm
Sensor cable length	1.8 m (70.9")