

# TurboVap<sup>®</sup> 96 Dual

Evaporation Reinvented



# This is 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.

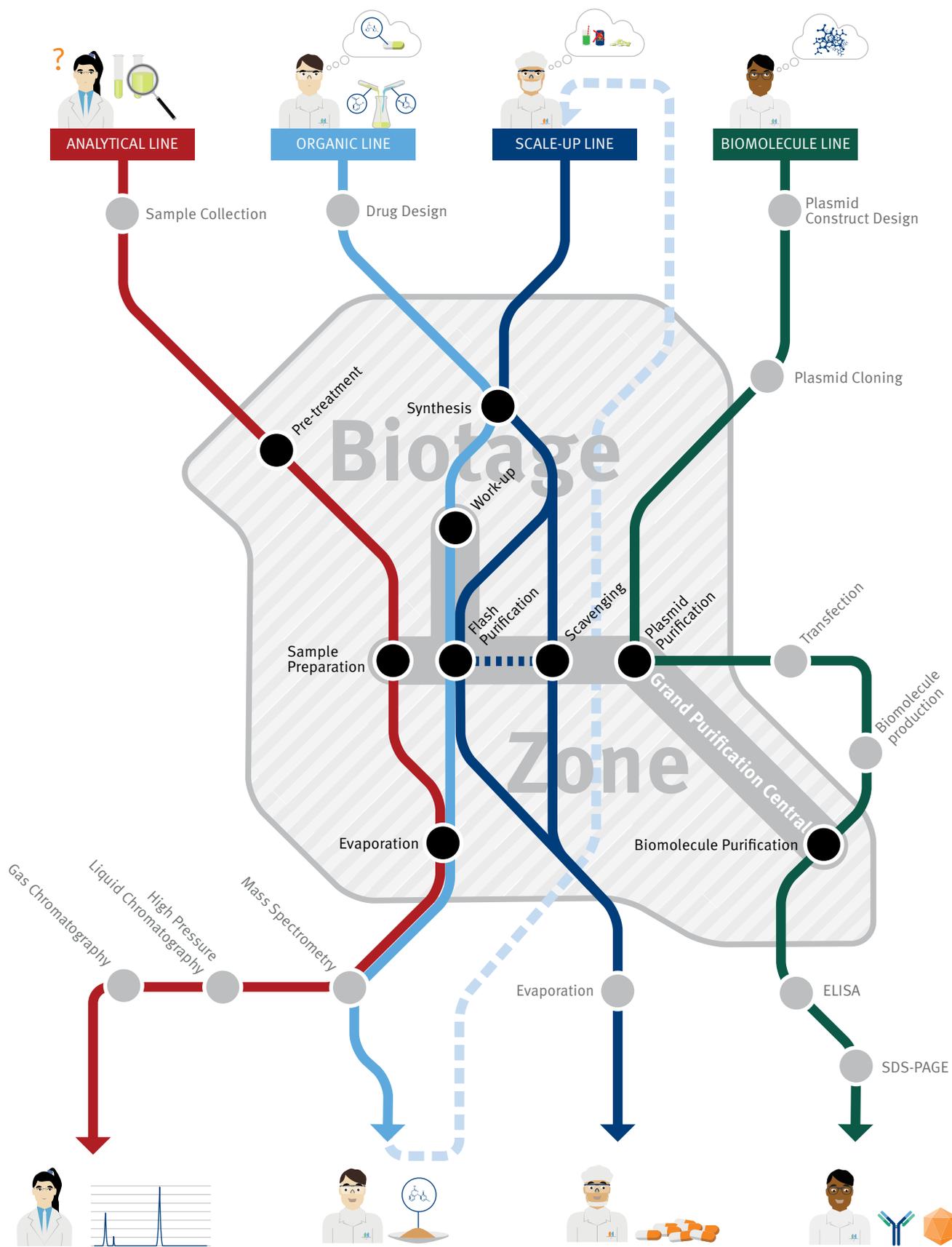
Biotage is contributing to sustainable science with the goal to make the world healthier, greener and cleaner – HumanKind Unlimited.

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.

Biotage is headquartered in Uppsala in Sweden and employs approximately 485 people worldwide. Our products are sold in more than 70 countries. Biotage’s share (BIOT) is listed in the Large Cap segment on the NASDAQ Stockholm.





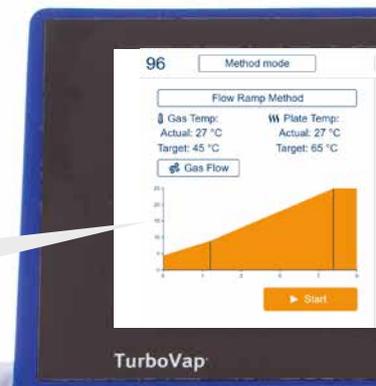
# Meet your new TurboVap® 96 Dual

## Intelligent Evaporation

**Not just your average plate evaporator.**

Programming methods with flow ramping give you perfect evaporation every time.

Step or gradient plate lifting can be independently adjusted to meet your sample throughput demands – all while decreasing evaporation time and gas consumption.



## Top and Bottom Heating

**Evaporate more with less gas.** Pre-heated gas from the top and convection heating from the bottom decreases evaporation time and improves consistency while reducing gas consumption.

Idle heating keeps the system heated and ready for the next evaporation.



## Independent & Dual Mode

**True 2-in-1 functionality.** Run one method on two plates simultaneously, or two independent evaporations. Either way, it's twice the throughput.

## Small footprint

**Lab space is always limited.** TurboVap® 96 Dual covers only 34 x 36 cm (13 x 14 in.) – incredible for a dual-plate evaporator with built-in fume exhaust.

Patent pending



### Clean User Interface

**Intuitive software.** Users can just walk up to the system and evaporate. No advanced training needed. Both evaporation manifolds can be individually controlled right on the touch screen.

### Gas & Energy Monitoring

**Know your usage.** Not everyone has unlimited supply of nitrogen in house. TurboVap® 96 Dual monitors energy and gas consumption so you can plan ahead.

### 96, 48, or 24 Positions

**Adaptable nozzle configurations.** TurboVap® 96 Dual comes ready with support for 96 well plates, and can of course be adapted to your workflow to run 24 or 48 positions.

### Smart Door Technology

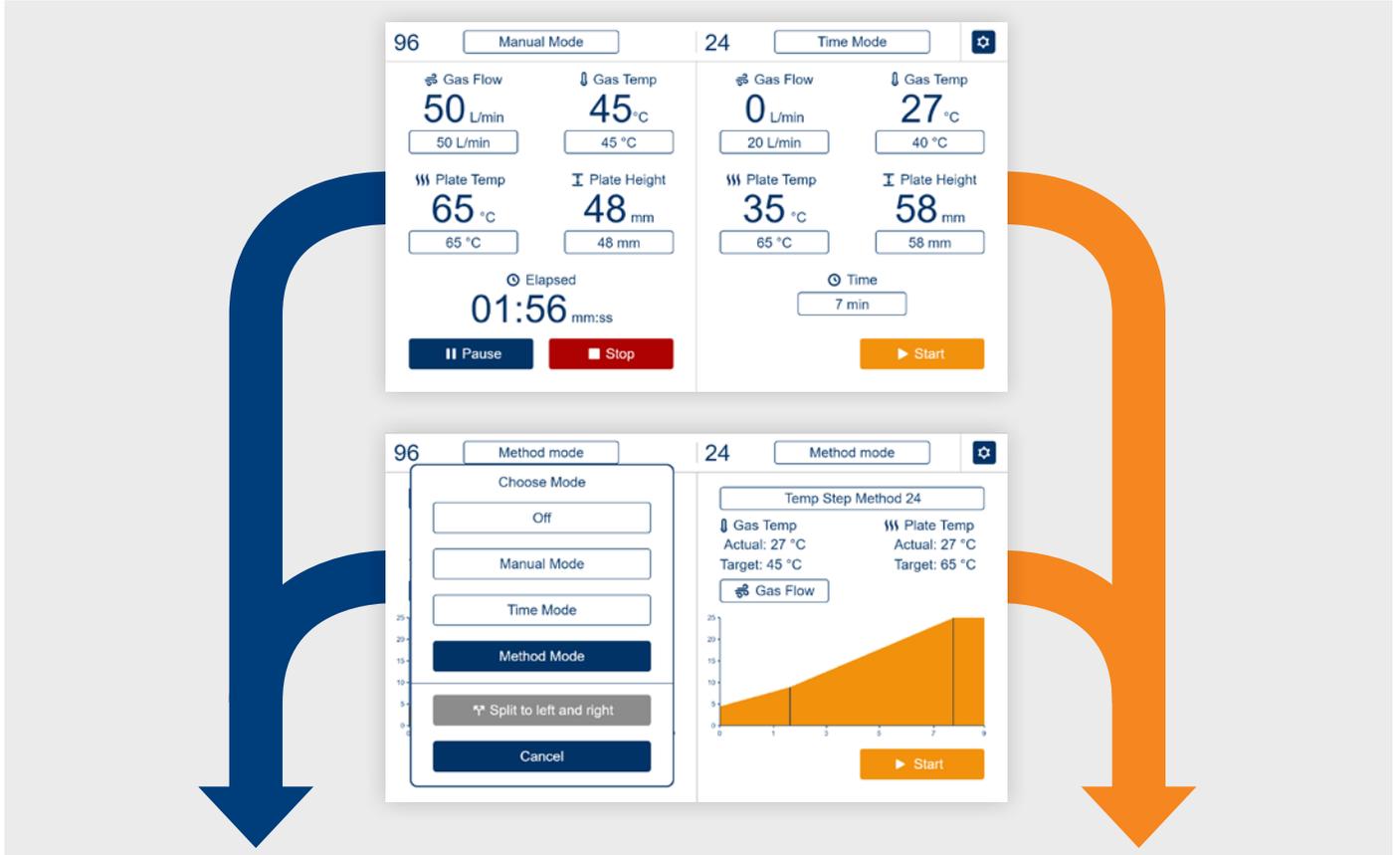
**Automatic stop-start.** Need to add something last minute? Just open the door and the system pauses your run and the lift returns to home. Grab your sample, make your changes, and close the door. Your run resumes right where it left off.

### Bench or Hood – You Choose

**Built in gas exhaust.** The system can operate inside or outside of the fume hood. The integrated and removable fume shield allows for easy cleaning and maintenance.

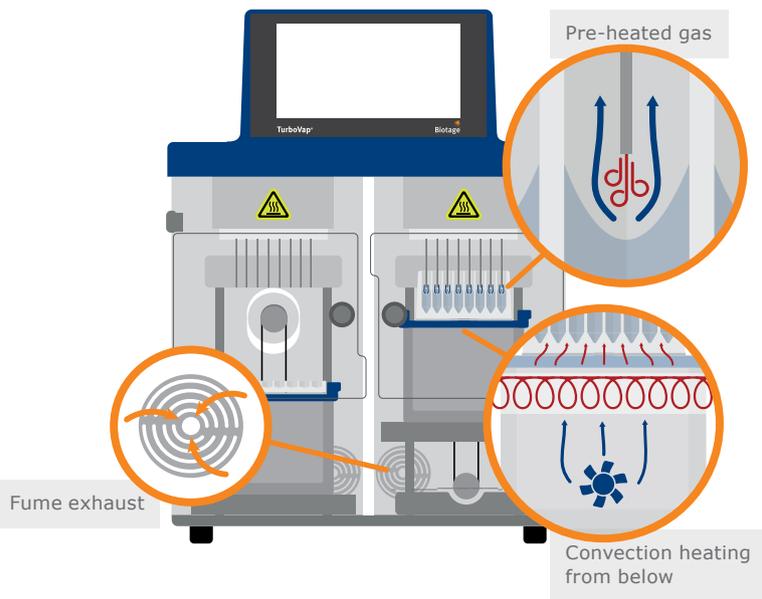
# You're in Full Control

The two evaporation channels can be independently controlled, started, and stopped from the touch screen on top. Choose from Manual, Time, or Method modes – you're in control.



# Intelligent Evaporation

With its single and dual functionalities, TurboVap® 96 Dual works like two single plate evaporators and a dual system in one. Pre-heated gas, automated plate ramp, or optional idle heating for in between runs – every feature can be adjusted to speed up evaporation and save gas, making the system as effective as possible.



Edit Method: Temp Step Method 96 Copy from Method

Edit name

1	2	3	4
Time: 2 min	4 min	6 min	8 min
Gas Flow: 20 L/min	30 L/min	40 L/min	50 L/min
Gas Temp: 40 °C	45 °C	55 °C	60 °C
Plate Temp: 40 °C	40 °C	40 °C	40 °C
Plate Height: 40 mm	45 mm	50 mm	55 mm

Ramp Gas Flow

Ramp Gas Temp

Ramp Plate Height

Buttons: ^, v, Open Numpad, Cancel, Save

96 | 96 Evaporating Step 1

Temp Step Method 96

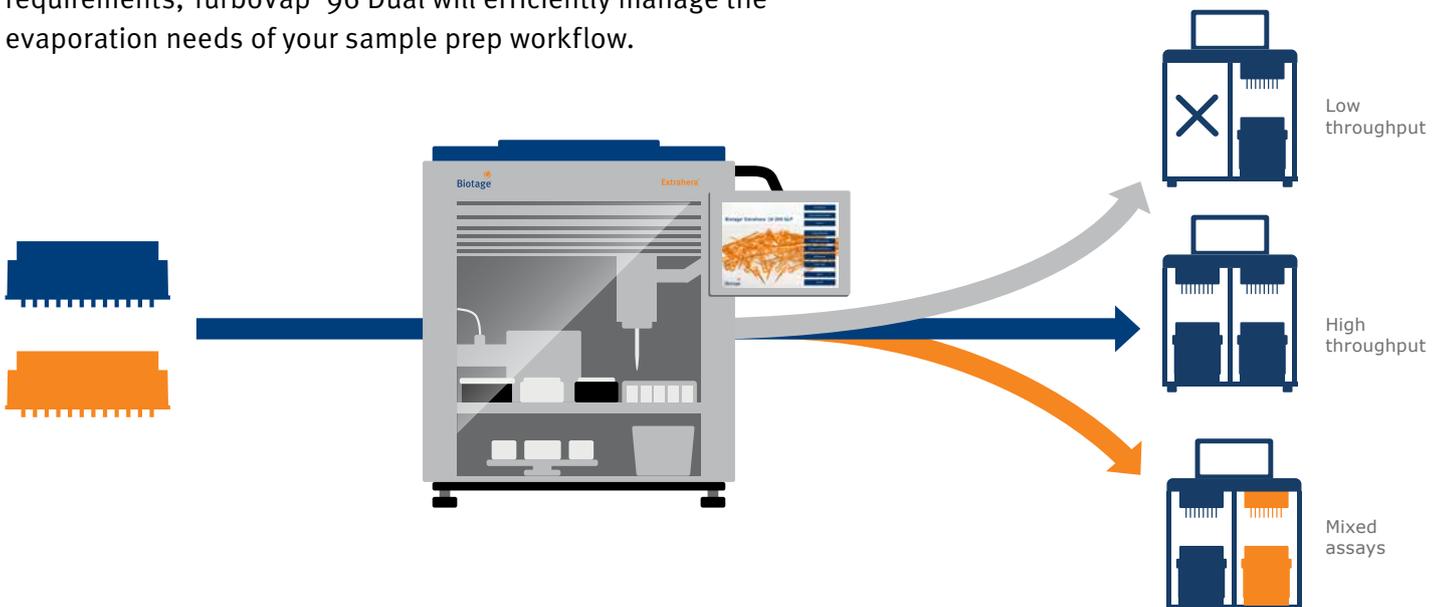
Remaining 10:34 mm:ss

Plate Height:

Buttons: Pause, Stop

## Fits Right Into the Workflow

No two days are the same. No matter your sample throughput requirements, TurboVap® 96 Dual will efficiently manage the evaporation needs of your sample prep workflow.



Patent pending

# Dedicated Support

## Biotage Global Service Packages

### Installation & Familiarization

This package includes installation and familiarization with a best effort response time.

Part number: SER-TV96D-INSTALL

☐ Installation and Familiarization (PPS638)

### First Year Maintenance Package

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

Part number: SER-TV96D-FYMP

☐ First Year Maintenance Plan (PPS480)

### Qualification Package (IQ/OQ)

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

Part number: SER-TV96D-IQOQ

## Biotage® 1-Point Support™

[biotage.com/service](https://biotage.com/service)

Patent pending





Dedicated Service

# Technical Specifications

<b>System</b>	
<b>Dimensions (W x D x H)</b>	337 x 365 x 451 mm (13.3" x 14.4" x 17.8") closed  337 x 486 x 451 mm (13.3" x 19.1" x 17.8") open  including the exhaust outlet at the rear.
<b>Weight</b>	18.7 kg (41 lbs.)
<b>Electrical supply</b>	100–127 V or 220–240 V at 50/60 Hz  Overvoltage category II
<b>Fuses</b>	T10A, 250 VAC
<b>Max. power consumed</b>	1000 VA
<b>Max Sound Level</b>	75 dB(A)
<b>Touch screen</b>	7"
<b>Certifications</b>	CE marked and CB and NRTL certified.
<b>Evaporation system</b>	
<b>Gas heater Temperature range</b>	Ambient to 65 °C, ± 2 °C accuracy.
<b>Plate Heater Temperature Range</b>	Ambient to 80 °C, ± 2 °C accuracy.
<b>Well plate format</b>	Compatible with well plates that conforms to ANSI SLAS 1-2004 (R2012)
<b>Gas supply</b>	
<b>Gas</b>	Nitrogen
<b>Minimum pressure</b>	3 bar (0.3 MPa, 44 PSI).
<b>Recommended Pressure</b>	3-6 bar (0.3–0.6 MPa, 44–87 PSI)
<b>Maximum Pressure</b>	6.5 bar (0.65 MPa, 94 PSI).
<b>Gas flow</b>	The maximum flow capability for each manifold is 90 L/min.  To reach the required flow the pressure must adhere to the recommended pressure.
<b>Environmental Requirements</b>	
<b>Operating temperature</b>	15 °C to 30 °C
<b>Storage temperature</b>	-25 °C to 60 °C
<b>Altitude</b>	Up to 2000 m altitude
<b>Location</b>	Indoor use only Not for wet location
<b>Dust/pollution</b>	Pollution degree 2
<b>Humidity</b>	20% to 90% RH (non-condensing)
<b>Ventilation</b>	
<b>Fume hood/ Ventilation system</b>	Fume hood or equivalent enclosure, or  Connected to a ventilation system via the exhaust outlet.
<b>Minimum Exhaust capacity</b>	1 m <sup>3</sup> /min (35.3 ft <sup>3</sup> /min)
<b>Connectors</b>	
<b>Power Cord</b>	EU, US and UK
<b>Nitrogen Inlet tube</b>	6 mm outer diameter. Connectors for conversion to 1/4" or 3/8" outer diameter.
<b>Exhaust Hose</b>	Length 3.8 meters (12.5 feet) Inner diameter 50.8 mm (2")

# Ordering Information

Part No	Description	Qty.
<b>Systems</b>		
<b>418000</b>	TurboVap® 96 Dual	1
<b>Manifolds and Racks</b>		
<b>418110SP</b>	96 Position Manifold, Kit	1
<b>418313SP</b>	48 Position Manifold, Kit	1
<b>418312SP</b>	24 Position Manifold, Kit	1
<b>418319SP</b>	Rack 12 x 32 mm, 24 Positions	1
<b>Accessories</b>		
<b>418122SP</b>	Nozzle Adapter Gasket	1
<b>418028SP</b>	Fume Hood	1
<b>418278SP</b>	Fume Hood Set Screw	1
<b>414355SP</b>	Biotage® ACT Plate Adapter	1
<b>Consumables</b>		
<b>121-5201</b>	Collection Plate, 350 uL Square	50
<b>121-5202</b>	Collection Plate, 1 mL Square	50
<b>121-5203</b>	Collection Plate, 2 mL Square	50
<b>121-5213</b>	Collection Plate, 2 mL, Round	50
<b>121-5210</b>	Collection Plate, 5 mL 48-Well	20
<b>121-5208</b>	Collection Plate, 10 mL 24-Well	25
<b>121-5105</b>	Collection Plate, 290 mL 1-Well	25
<b>600-0002-LVP</b>	Biotage® Mikro ABN Plate, 2 mg	1
<b>601-0002-LVP</b>	Biotage® Mikro CX Plate, 2 mg	1
<b>602-0002-LVP</b>	Biotage® Mikro WCX Plate, 2 mg	1
<b>603-0002-LVP</b>	Biotage® Mikro AX Plate, 2 mg	1
<b>604-0002-LVP</b>	Biotage® Mikro WAX Plate, 2 mg	1
<b>600-0010-PX01</b>	EVOLUTE® EXPRESS ABN, 10 mg	1
<b>601-0010-PX01</b>	EVOLUTE® EXPRESS CX, 10 mg	1
<b>602-0010-PX01</b>	EVOLUTE® EXPRESS WCX, 10 mg	1
<b>603-0010-PX01</b>	EVOLUTE® EXPRESS AX, 10 mg	1
<b>604-0010-PX01</b>	EVOLUTE® EXPRESS WAX, 10 mg	1
<b>820-0200-P01</b>	ISOLUTE® SLE+ 200 uL Supported Liquid Extraction Plate	1
<b>820-0400-P01</b>	ISOLUTE® SLE+ 400 uL Supported Liquid Extraction Plate	1

Patent pending



# Your Complete Partner for Effective Chemistry

Biotage is a worldwide supplier of instruments and accessories designed to facilitate the work of scientists in life sciences. 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 analytical, organic, process, and biomolecule chemistry, we can offer the widest range of solutions available on the market.

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