



# Biotage® V-10 Touch

Peptide purification can generate a large number of fractions that require concentrating and pooling prior to freeze drying. The powerful Biotage® V-10 Touch solvent evaporation system rapidly dries samples dissolved in both aqueous and organic solvents. It easily evaporates fractions from purification or high boiling-point solvents from syntheses such as NMP or storage solvents such as DMSO.

The built in optimized methods have been designed to protect the sample against overheating or bumping while still maintaining maximum evaporation speed.

# Typical Solvent Evaporation Times Using Default Settings (Including Final Dry)

Solvent	Volume (mL)	Method	Time (min)
NMP	12	Very High Boil	18
DMF	12	Very High Boil	7
DMSO	12	Very High Boil	15
Water	12	Aqueous	16
50% Acetonitrile in Water	12	<b>HPLC Fractions</b>	15
20% Piperidine in DMF	8	Mixed Vol & HPB	7
TFA	5	Volatile	5

### **How Does V10-Touch Help Peptide Chemists?**

- Removal of cleavage cocktails, either completely or reducing the volume before ether precipitation.
- Concentration and pooling of flash or HPLC fractions prior to freeze drying.
- » Removal of high boiling solvents such as DMF, DMSO that are used in synthesis reactions or as storage solvents.
- » Can be used post synthesis or post purification.

① Learn More
Biotage® V-10 Touch Evaporation System Product Video
Biotage® V-10 Touch Product Folder (PPS415)
Using Peptide Synthesizers for Discovery of Non- standard Peptides Customer case (PPS406)

# **Technical Specifications**

# Biotage® Initiator+ Alstra™

# Heating Process

Temperature Range 40-100 °C
Temperature Increase Typically 2-5 °C/s

Pressure Range Run at atmospheric pressure

Power Range0-120 W at 2.45 GHzReactor Vial Sizes5, 10 and 30 mLAgitationOscillating mixing unitReaction Volumes5 mL (0.6-3.5 mL)

10 mL (3.5-10 mL) 30 mL (4.5-20 mL)

Inert Gas Approx. 2 L/min (0.07 cubic feet/min); 0.5 bar (0.05 MPa; 7.25 PSI)

(microwave Cavity)

Approx. 4 L/min (0.14 cubic foot/min): 0.5 bar (0.05 Mpa; 7.25 PSI)

Inert Gas Approx. 4 L/min (0.14 cubic feet/min); 0.5 bar (0.05 MPa; 7.25 PSI) (Manifold Option)

## ÎÎ Liquid Handling

**Syringe Pump** 3 x digital syringe pumps, with 10 mL sample loop

Flow Rate 6–50 mL/min

**Reagent Bottles** 5 x 185 mL GL45 glass bottles

**Solvent Bottles** 1 x 5 L, 1 x 2 L, and 1 x 1 L, GL45 brown glass bottles

Amino Acid Rack 32 x 30 mL Waste Bottle 10 L

### **■** Interfaces

Touch Screen 10.4"

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

USB USB 2.0
Archiving/back-up Via USB
Printing Via LAN

## System Requirements

Operating Temperature 18–32 °C

Storage and Transportation -25°C to 60°C (-13°F to 140°F)

Temperature

**Humidity** 20−95% at room temperature **Power Requirements** Europe: 220−240 V~, 50 Hz (5 A)

US and Japan: 100-120 V~,50/60 Hz (10 A)

Max. Power Consumed 1100 VA

**Weight** 42 kg (92.6 lbs.)

Dimensions (W X D X H)640 x 430 x 640 mm (25.2" x 16.9" x 25.2")Vacuum PumpMinimum partial pressure: 100 mbarFlow Rate11 L/min (0.4 cubic feet/min)

CE, CAN/CSA certified

### Syro I



**Automation** Single robotic arm

**Liquid Handling**Two 5 mL digital syringe pumps **Agitation**Vortex mixer for reactor block

Reactor Block (standard)

One U-type reactor block for 2, 5 and 10 mL reactor vials. Choice of either 24 or 48 positions

 Vacuum Pump
 ME 2C

 Amino Acid Rack
 40 x 50 mL

Reagent Bottle Rack $2 \times 500 \text{ mL}$ ,  $3 \times 200 \text{ mL}$ Waste Bottle $1 \times 10 \text{ liter Nalgene bottle}$ 

**Equipment** Includes desktop PC, flat panel monitor, printer, and Syro XP software

**Dimensions (W X D X H)** 56 cm x 70 cm x 91 cm

Weight 60 kg

Power Requirements

**Robot (max. 250 W)** EU:230 V~, 50 Hz (1.5 A) USA: 120 V~, 60 Hz (2.5 A)

Japan: 100 V~, 50/60 Hz (3.0 A) EU: 230 V~, 50/60 Hz (1.4 A) USA: 120 V~, 60 Hz (3 A)

Japan: 100-115 V~, 50/60 Hz (3.8 A)

### Syro II

Vacuum Pump



**Automation** Dual robotic arm with a three tip pipetting washcomb

**Liquid Handling** Four digital syringe pumps - 1 x 5 mL digital syringe pump for amino acid addition, 3 x 10

mL digital syringe pumps for solvent wash and reagent addition.

**Agitation** Vortex mixer for two reactor blocks

Reactor Block (standard) Two U-type reactor blocks for 2, 5 and 10 mL reactor vials. Choice of either 24 or 48

positions

 Vacuum Pump
 ME 4C

 Amino Acid Rack
 40 x 50 mL

Reagent Bottle Rack $3 \times 500 \text{ mL}$ ,  $4 \times 200 \text{ mL}$ Waste Bottle $1 \times 20 \text{ liter Nalgene bottle}$ 

**Equipment** Includes desktop PC, flat panel monitor, printer, and Syro XP software

**Dimensions (W X D X H)** 82 cm x 70 cm x 91 cm

Weight 85 kg

Power Requirements

**Robot (max. 250 W)**EU:230 V~, 50 Hz (1.5 A)
USA: 120 V~, 60 Hz (2.5 A)

Japan: 100 V~, 50/60 Hz (3.0 A) EU: 230 V~, 50/60 Hz (1.4 A)

**Vacuum Pump** EU: 230 V~, 50/60 Hz (1.4 USA: 120 V~, 60 Hz (3 A)

Japan: 100-115 V~, 50/60 Hz (3.8 A)

# Biotage® Initiator+ SP Wave

# Heating Process

**Temperature Range** Peptide synthesis: 40°C to 100°C

Organic synthesis: 40°C to 300°C

Note: Biotage® Microwave Reaction Vials 10-20 mL for organic synthesis may not be used at

temperatures above 250°C.

**Temperature Increase** Typically 2°C to 5°C per second depending on solvent and power applied.

Pressure Range Peptide synthesis: Run at atmospheric pressure

Organic synthesis: 0 to 30 bar (3 MPa; 435 PSI)

Note: Biotage Microwave Reaction Vials 10–20 mL may not be used at pressures above 20 bar.

**Power Range** Peptide synthesis: 0 to 120 W from magnetron at 2.45 GHz

Organic synthesis: 0 to 400 W from magnetron at 2.45 GHz

**Reactor Vial Sizes** Peptide synthesis: 2 mL, 5 mL and 10 mL

Organic synthesis: 0.2-0.5 mL, 0.5-2.0 mL, 2.0-5.0 mL and 10-20 mL

Agitation Peptide synthesis: Vortex unit (500 to 1300 rpm)

Organic synthesis: Magnetic stirrer (300 to 900 rpm)

**Reaction Volumes** Peptide synthesis:

2 mL reactor vial: 0.8–1.1 mL 5 mL reactor vial: 1.6–3.2 mL 10 mL reactor vial: 3.2–6.4 mL

Organic synthesis:

0.2 to 20 mL in microwave reaction vials

Inert Gas (optional) Approximately 2 L/min (0.07 cubic feet/min), 0.5 bar (0.05 MPa; 7.25 PSI)

## ÎÎ Liquid Handling

**Syringe Pump** Digital single syringe pump, 11 mL with sample loop

Flow Rate2-50 mL/minReagent Bottle Rack $3 \times 100 \text{ mL}$ System Solvent $1 \times 2000 \text{ mL}$ 

#### **■** Interfaces

Touch Screen 10.4"

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

USB 2.0
Archiving/back-up Via USB
Printing Via LAN

# System Requirements

Operating Temperature 18-32 °C
Storage and Transportation -25 °C to 60 °C

Temperature

**Humidity** 20–95% at room temperature **Electrical Supply** Europe: 220–240 V~, 50 Hz (5 A)

US and Japan: 100-120 V~, 50/60 Hz (10 A)

Max. Power Consumed 1100 VA

**Weight** 33 kg (72.7 lbs.)

**Dimensions (W X D X H)** 400 mm x 500 mm x 685 mm (15.7" x 19.7" x 27.0")

Vacuum Source Minimum partial pressure: 100 mbar

Flow Rate 11 L/min (0.4 cubic feet/min)

CE, CSA certified

### Isolera



#### **System Specification**

Flow Rate 1-200 mL/min **Pressure Limit** 145 psi (10 bar)

No. of Column Channels 1

**UV** Detection Choice of variable wavelength

(200-400 nm), fixed (254 nm), or UV-VIS (200-800 nm) detectors

**Collection Vessels** Test tubes (13 mm, 16 mm, 18 mm, and 25 mm) and bottles (120 mL, 240 mL, and 480 mL)

System Control & Data Management On-board computer with 10.4" capacitive touch screen interface

355 mm (14") x 596 mm (23.5") x 497 mm (19.6"). Add 178 mm (7") with EXP Dimensions (W X H X D)

Weight 30-35 kg (66-77 lbs)



Power Requirements 100-240 VAC, 50/60 Hz, 4.0 A

**Certifications** CE, cTÜVus

### Biotage® Selekt



# System Specification

Flow Rate 1-300 mL/min **Pressure Limit** 435 psi (30 bar)

No. of Column Channels

**UV** Detection Choice of variable wavelength

(200-400 nm) or UV-VIS (198-800 nm) detectors

Test tubes (13 mm, 16 mm, 18 mm, and 25 mm) and bottles (120 mL, 240 mL, and 480 mL) **Collection Vessels** 

**System Control & Data Management** On-board computer with 15.0'' (1024 x 768 px) solvent stable TFT LCD touch screen

Dimensions (W X H X D) 335/550\* mm (13.2"/21.7"\*) x 545 mm (21.5") x 393 mm (15.5"). \*With extended collection bed

Weight 23–25 kg (50-54 lbs), depending on system configuration

Power Requirements 100-127, 220-240 VAC, 50/60 Hz. Connect only to a grounded outlet

Certifications CE and FCC marked. CB and NRTL certified

### Biotage® V-10

Condenser

Vacuum

Solvent Compatibility

Boiling points from 30 °C to 160 °C (up to 205 °C with an external vacuum pump). The system is not

suitable for solutions containing HCl at any concentration.

Heating

20 °C to 70 °C

**Rotational Speed** 3000 to 8000 rpm

Refrigerated condenser temperature: -25 °C.

Automated and manual draining; and manual defrost.

Pressure control method: Variable speed and level. Internal vacuum Pump: 2 mbar. Optionally an external vacuum pump can be connected using a KF-16 vacuum flange.

**1** Vial Compatibility 30 mL scintillation vial 20 mL scintillation vial

16 mL vial 8 mL vial 4 mL

2100 VA

**Solvent Reclamation** Up to 98% of solvent vapors under typical conditions

Exhaust Double trapping

**⇒** Electrical Supply 220-240 V~, 50 and 60 Hz, 10 A

**Max. Power Consumed** 

Dimensions (WxDxH) 40 cm x 48 cm x 53 cm

15.7" x 18.9" x 20.9"

Weight 50 kg/110 lbs

**Part Numbers** V10-2XX V-10 Touch System V10-2SC V-10 Touch System with Solvent Manager and Automation

Accessories 411181 Carousel Vial Holder 30/20 mL vials

411816 Gilson Liquid Handler GX271 - V-10