

# Initiator Peptide Workstation

## Manual Microwave Peptide Synthesis



Wash Station shown with centrifuge tube

Wash Station shown with GL 45 glass bottle

### Rapidly synthesize high quality peptides using microwave irradiation

The Biotage® **Initiator Peptide Workstation** is an accessory to perform manual microwave peptide synthesis and cleavage utilizing the Biotage Initiator microwave synthesizer.

The Initiator Peptide Workstation consists of a specially designed microwave peptide vial and wash station to enable the synthesis of peptides using the Initiator without any system modifications.

Peptide synthesis is performed in the microwave peptide vial utilizing the Initiator under atmospheric conditions. The vial contents are filtered and washed using the wash station.

This is a cost-effective way to enjoy the benefits of microwave assisted solution and solid phase peptide synthesis.

#### Key Features

- Enables microwave assisted peptide synthesis
- Reusable 2-5 mL or 10-20 mL microwave peptide vials
- Disposable HDPE frit
- Reusable snap cap
- Height adjustable vacuum head
- Use in Initiator without system modifications
- Microwave cleavage on the same platform
- Compact footprint

#### Microwave Peptide Vials

The microwave peptide vial is available in two different sizes; 2-5 mL for 75-150  $\mu\text{mol}$  scale or 10-20 mL for 250-500  $\mu\text{mol}$  scale synthesis (depending on resin loading). The complete vial is easily assembled and consists of a glass vial, HDPE frit, check valve and snap cap with septum.

#### Wash Station

The wash station consists of a specially designed vacuum head on a height adjustable stand. When connected to a vacuum pump, this allows the microwave peptide vial to be easily emptied when positioned on the vacuum head. Material can be collected in a standard GL 45 laboratory glass bottle, 50 mL centrifuge tube or even a round bottom flask.

#### Economically Synthesize Difficult Sequences

Use microwave irradiation and standard reagents to synthesize difficult sequences that are problematic or even impossible to synthesize using standard methods.

#### Faster Synthesis

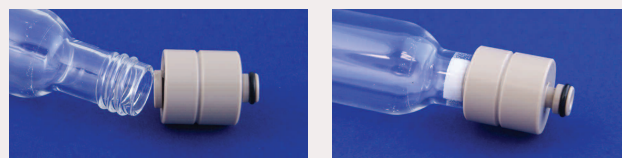
Reduce cycle times by using microwave irradiation and fast manual washing and emptying.

#### Versatile

Allows solution and solid phase peptide synthesis, cleavage of peptides and post-synthetic modification of peptides using microwave irradiation. The Workstation can also be used to perform other types of chemistry, e.g. organic, PNA and peptoid synthesis.

#### Reduce costs

When using expensive reagents you can manually add the exact amount of reagent while minimizing waste and costs.



*The HDPE frit is easy to remove and replace after synthesis. Simply unscrew the check valve, push out the used frit, replace with a new frit and tighten the check valve.*

## Specifications

### Initiator Peptide Workstation

- **Two microwave peptide vial sizes available:**  
2-5 mL for 75-150 µmol scale or 10-20 mL for 250-500 µmol scale (depending on resin loading)
- **Agitation:**  
Variable magnetic stirrer (recommend 300-600 rpm)
- **Initiator type:**  
with EXP function only (disconnect robot and restart system)
- **Wash station vacuum seal:**  
viton seal as standard, kalrez seal available as an option
- **Wash station vacuum head fits:**  
standard GL 45 (45 mm diameter neck size) laboratory glass bottles, 50 mL centrifuge tube and round bottom flasks (B24 and larger)
- **Dimensions:**  
180 x 190 x 340 mm (W x D x H)
- **Weight:**  
1.5 kg

## Ordering Information

Part #	Description	Part #	Description
355985	Initiator Peptide Workstation, 2-5 mL vial (355964 + 355968)	355968	Wash Station, qty 1
355986	Initiator Peptide Workstation, 10-20 mL vial (355965 + 355968)	355814	1000 mL GL 45 laboratory glass bottle, qty 1
355964	2-5 mL microwave peptide vial kit including additional septum (5), frit (5), and check valve o-ring (2)	355957	Check valve, qty 1
355965	10-20 mL microwave peptide vial kit including additional septum (5), frit (5), and check valve o-ring (2)	355962	Check valve o-ring, kalrez, qty 2
355782	2-5 mL microwave peptide vial glass barrel, qty 1	355804	Snap cap, qty 1
355803	10-20 mL microwave peptide vial glass barrel, qty 1	355960	Septum, qty 5
		355961	HDPE frit, qty 5
		355984	Magnetic stirring bar for 2-5 mL vials, qty 5
		353930	Magnetic stirring bar for 10-20 mL vials, qty 5
		355959	Vacuum seal, kalrez, qty 1
		355966	Vacuum seal, viton, qty 5
		355967	Rubber feet, wash station, qty 4

## Related Products



### Initiator

The Initiator microwave synthesizer enables chemists to quickly synthesize compounds using microwave heating. In addition to speed, microwave synthesis offers other advantages such as simplicity and broader exploration.

Through superior heating features, the Initiator is able to quickly achieve temperatures and pressures beyond the traditional reflux heating. This allows chemists to perform complex reactions formerly not possible and is, therefore, the fastest growing technology in the pharmaceutical research laboratory.

Chemists can now safely access the benefits of microwave assisted peptide synthesis using the Initiator and the Initiator Peptide Workstation.

### NORTH AMERICA

Main Office: +1 704 654 4900  
Toll Free: +1 800 446 4752  
Fax: +1 704 654 4917  
Order Tel: +1 704 654 4900  
Order Fax: +1 434 296 8217  
ordermailbox@biotage.com

### EUROPE

Main Office: +46 18 56 5900  
Fax: +46 18 59 1922  
Order Tel: +46 18 56 57 10  
Order Fax: +46 18 56 57 05  
order@biotage.com

### JAPAN

Tel: +81 422 28 1233  
Fax: +81 422 28 1236  
jp\_order@biotage.com

To locate a distributor please visit our web site at [www.biotage.com](http://www.biotage.com).