

# Syro Wave™

## Automated Microwave and Parallel Peptide Synthesizer



Syro Wave™ Microwave and Parallel Peptide Synthesizer

## Best of Both Worlds

Rapidly synthesize high quality peptides using the microwave or parallel peptide synthesizer

The Biotage Syro Wave™ system is a programmable peptide synthesizer that is capable of both conventional room temperature parallel peptide synthesis and microwave assisted peptide synthesis. The system is a fully automated and computer controlled peptide synthesizer, based on a pipetting robot with a single arm.

The Biotage Syro Wave™ system is a combination of the MultiSynTech Syro I and Biotage Initiator 1 instruments, controlled by a single PC. This is the only system available with both microwave and parallel peptide synthesis capabilities. With the Syro Wave™ peptide synthesizer Biotage offers a system with a proven pedigree and history of performance and reliability.

Benefit from the unique ability to make part of the peptide sequence using conventional solid phase peptide synthesis on the parallel reactor block and then transfer the reactor vial to the microwave cavity to drive difficult couplings to completion.

### Key Features

- Microwave assisted peptide synthesis
- Parallel peptide synthesis
- Vortex mixing in microwave cavity
- Single robotic arm
- Disposable polypropylene reactor vials
- Variable scale from 1-300  $\mu\text{mol}$
- Easy to use Syro XP software
- Separate cleavage and transfer workstation

### 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.

### Save Time and Increase Productivity

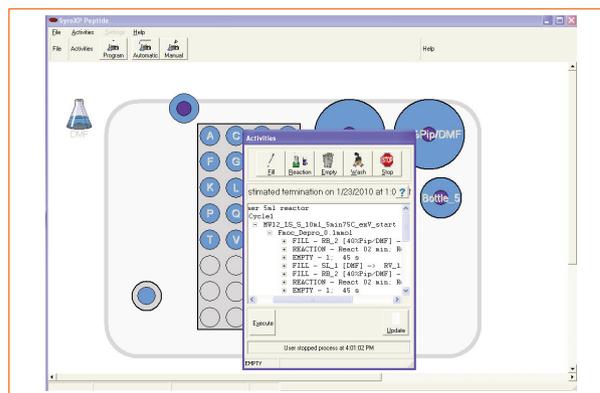
Automated parallel operation allows for the synthesis of more peptides in shorter times resulting in the highest productivity. Reduce cycle times even further using microwave irradiation.

### Increase Yield and Purity

Accurate dispensing of exact volumes of all reactants and vortexing of the reaction mixture, guarantee the optimal result in terms of yield and purity while minimizing waste and costs.

### Detailed Reagent Calculation

The easy to use Syro XP software controls the instrument functions and calculates all amounts and volumes of amino acids and reagents required.



Syro XP software

## Reduce Coupling Costs

The use of a digital syringe pump and minimized flow paths lead to low amino acid and reagent consumption. This reduces coupling and running costs compared to other systems.

## Syro Wave™ Technical Specifications

### System Specifications

Microwave cavity  
Single robotic arm  
1 x digital syringe pump, 5 ml  
1 x type U-reactor block which can accept 2, 5 and 10 ml reactor vials  
Choice of either: 24 or 48 position reactor block  
Vortex mixer for reactor block  
Separate vortex mixer for microwave cavity  
Vacuum Pump  
Amino Acid Rack: 32 x 50 ml Falcon Tubes  
Reagent Bottle Rack: 2 x 500 ml and 3 x 200 ml  
Waste Bottle: 1 x 10 liter Nalgene bottle  
Includes Dell Desktop PC, Flat Panel Monitor, Printer, Syro XP Software  
Dimensions (W x D x H) and Weight: 90 cm x 70 cm x 91 cm, 85 kg

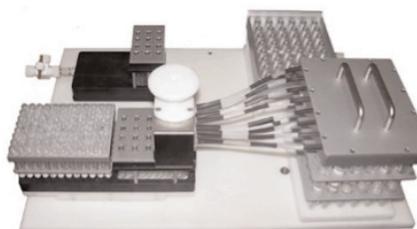


### Heating Process

Temperature range	40-80 °C
Temperature increase	Typically 2-5 °C/sec
Pressure range	Run at atmospheric pressure
Power range	0-200 W at 2.45 GHz, capped at 60 W during steady state
Agitation	Vortex
Reactor vial sizes	2, 5 and 10 ml
Vial volume range	When using the microwave unit: 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

### Optional Accessories & Consumables

Disposable polypropylene reactor vials  
Cleavage and Transfer Workstation  
Vortex mixer for cleavage unit  
24 position reactor block for 2, 5 and 10 ml reactor vials  
48 position reactor block for 2 ml reactor vials  
Tip synthesis module for applications that require large number of peptides in small quantities 1-5 µmol



Optional Cleavage and Transfer Workstation

## www.biotage.com

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  
press (4) at the auto attendant  
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@eu.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).

Please contact your Biotage representative or visit [www.biotage.com](http://www.biotage.com) for more information.

Copyright © 2009. All rights reserved. All brand and product names are trademarks or registered trademarks of their respective companies. The information contained in this document is subject to change without notice.