

# SYRO I and SYRO II

## Automated Parallel Peptide Synthesizers



SYRO II Parallel Peptide Synthesizer

## Easily synthesize high quality peptides

The Biotage SYRO I and SYRO II systems are fully automated and computer controlled peptide synthesizers, based on pipetting robots with one or two arms respectively.

The system's modular construction offers greatest flexibility with respect to the number and size of storage containers for amino acids and reagents as well as reaction vessels. Different reactor blocks with 24, 48 or 96 positions allow for parallel synthesis of peptides in a range from 1 to 300 µmoles.

Digital syringe pumps enable exact dosing of all reactants with microliter precision, a variable speed vortexer ensures the optimal mixing of the reactants. This guarantees the optimal result in terms of yields and purities at a minimum of waste and costs.

With the SYRO I and SYRO II peptide synthesizers Biotage offers systems with a proven history of reliability and performance.

### Key features

- Single or dual robotic arms
- Customizable reaction blocks
- Disposable polypropylene reactors
- Disposable amino acid containers
- Variable scale from 1-300 µmol
- Separate cleavage and transfer workstation
- Easy to use SYRO XP software
- Modular construction offers great flexibility

### Save time, increase productivity

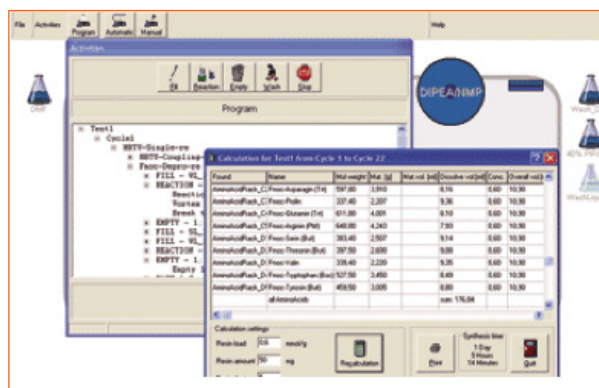
True automated parallel operation allows for the synthesis of more peptides in shorter times. Flexible reactor formats increase synthesis throughput and result in the highest productivity.

### Benefit from high yields and purity

Accurate dispensing of exact volumes of all reactants and vortexing of the reaction mixture guarantee best synthesis results. Regardless if coupling, deprotection or washing steps are performed, everything is done with the same accuracy.

### Detailed reagent calculation

The SYRO XP software controls the instrument functions and calculates all amounts and volumes of amino acids and reagents. When programming a library the software provides a "shopping list" with detailed information on required volumes of each reactant.



SYRO XP software

### Reduce coupling costs

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

### Proven performance

With more than 5000 discovery chemistry systems installed worldwide, Biotage's automated systems increase productivity and improve success. The SYRO peptide synthesis instruments have a proven history of performance and reliability.

## Technical Specifications

### SYRO I Peptide Synthesizer

Single robotic arm

2-digital syringe pumps, 5 ml each

Vortex Mixer

1 x type U-reactor block which can accept 2, 5 and 10 ml reactors

Choice of either: 24 or 48 reactors

Vacuum Pump

Amino Acid Rack 40 x 50 ml Falcon Tubes

Reagent Bottle Rack 2 x 500 ml, 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 H x D) and Weight: 56 cm x 91 cm x 70 cm, 60 kg

### SYRO II Peptide Synthesizer

Dual robotic arm with a triple pipetting comb

4-digital syringe pumps\*

Vortex Mixer for two reactor blocks

2 x type U-reactor block which can accept 2, 5 and 10 ml reactors

Choice of either: 2 x (24 or 48 reactors)

Vacuum Pump

Amino Acid Rack 40 x 50 ml Falcon Tubes

Reagent Bottle Rack 3 x 500 ml, 4 x 200 ml

Waste Bottle 1 x 10 liter Nalgene bottle

Includes Dell Desktop PC, Flat Panel Monitor, Printer, Syro XP Software

\*1-digital syringe pump, 5 ml for AA addition, 3-digital syringe pumps, 10 ml for solvent wash and reagent addition

Dimensions (W x H x D) and Weight: 82 cm x 91 cm x 70 cm, 80 kg

### Optional Accessories

Inert gas option for reagent containers and reactors

Disposable polypropylene reactors

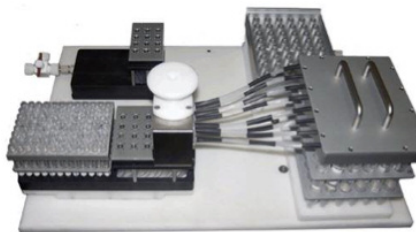
Cleavage and Transfer Workstation

Vortex mixer for cleavage unit

24 x reactor block for 2, 5 and 10 ml reactors

48 x reactor block for 2 ml reactors

Tip synthesis module for applications that require a large number of peptides in small quantities 1-5  $\mu$ mol



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.

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