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

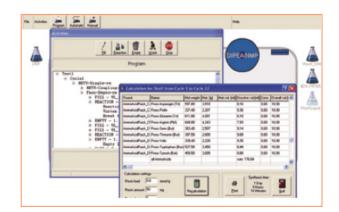
True automated parallel operation allows for the synthesis of more peptides in shorter times. Flexible reactor formats increase synthesis throughput and result in the highest productivity.

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

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

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 μmol



Optional Cleavage and Transfer Workstation

Please contact your Biotage representative or visit www.biotage.com for more information.

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