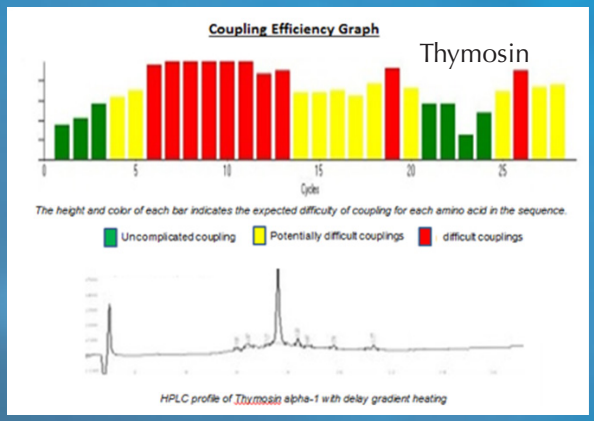
ECLIPSE™

Fast, Economical, Automated Peptide Synthesizer



- SMART™ Software Predicts the Difficulty of the Synthesis and Provides the Protocol
- Fast Synthesis
- Heating Capability
- Minimum Solvent Usage
- Highest Quality Crude Peptide
- 10 mg - 500 mg Resin
- Easy-To-Operate for Novice and Expert
- Standard or Custom Designed Protocols
- Compact and Economical to Fit any Space
- A Personal Synthesizer

aapptec

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Contact: sales@aapptec.com

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ECLIPSE™

QUALITY

Eclipse™ is a SMART™ new peptide synthesizer providing the peptide chemist software which analyzes any sequence no matter how difficult the deprotection and coupling. The Eclipse™ SMART™ software presents the user with a synthesis strategy in written and graphic display which provides a protocol for each step of the process including deprotection and coupling steps. Our exclusive software is based on an algorithm compiled from AAPPTec's thirty-five years of experience synthesizing difficult peptides.

The Eclipse™ is a research scale peptide synthesizer used by experts and novices alike. Researchers need only to enter:

- Peptide sequence and name
- Amount of resin used
- Resin substitution
- Press "Analyze Sequence"
- Press "Run"

The Eclipse™ SMART™ Software will automatically generate and carry out the synthesis protocol without additional input. Experienced peptide researchers can create custom protocols including double and single couplings, longer or shorter reaction times or variable temperatures. They can change the number of washes or even utilize different coupling chemistry for each amino acid. While the instrument is running, one can change the protocol without interruption or set up the next synthesis.

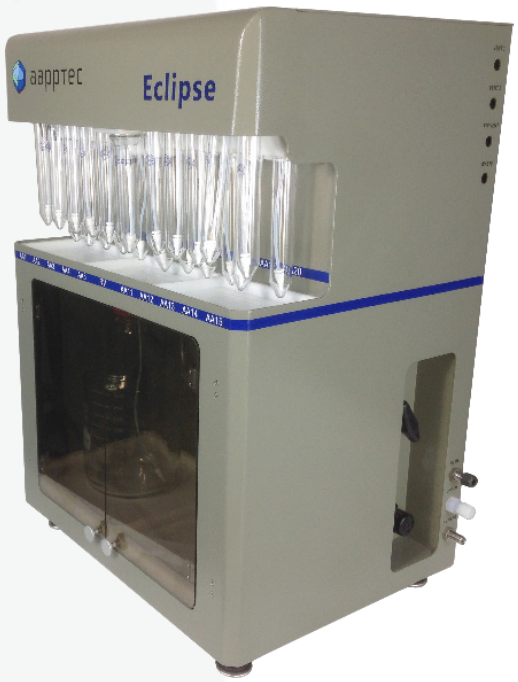
AUTOMATION

The Eclipse™ SMART™ software not only automatically displays a graphical prediction of synthesis difficulty, but also calculates the solvent reagents needed for the synthesis according to the synthesis protocol. The concentration of the reagents are calculated and provided for the synthesis including the position where each monomer or amino acid should be placed.

The system also monitors liquid deliveries, temperature of the reaction, washing, and emptying reaction vessels. When the synthesis is complete, the SMART™ software requests to

automatically wash and clean all of the vessels and lines that have been used in the synthesis to be ready for the next use.

The SMART™ software can be programmed to predict when and where to modify the chemistry either by using double coupling, substituting pseudoproline dipeptides, Dmb protected dipeptides or amino acid, double coupling and extended deprotection, etc. Thus, these modifications improve synthesis efficiency and increase the quality of crude peptide by reducing the side products which results in a greater increase in yield and superior crude peptdide.



ECLIPSE™ FEATURES & OPTIONS

- Automatically set up synthesis
- SMART™ Software predicts difficult sequences and automatically suggest protocol suitable for efficient coupling and deprotection
- Gives flexibility to the expert chemist to modify protocol
- Precise delivery of amino acids and reagents
- Amino acid pre-activation
- Mixing by N2 bubbling
- Heating, fast coupling and deprotection available for proven delayed gradient technique
- Low solvent usage
- Low cost of reagent
- Low waste
- All reactor, amino acid containers and reagent bottles are all easily accessible from the front
- Compact footprint

SPECIFICATIONS

Width: 18.5″(47cm)

Depth: 14.5″(37cm)

Height: 25.5″(65cm)

Weight: 75lbs(34kg)

6309 Shepherdsville Rd. Louisville, KY 40228, U.S.A. +1 502-968-2223

ECLIPSE™

Spirit of Innovation™

Economical

Easy-To-Use

Efficient

Over 35 years experience in providing all of your peptide synthesis needs.

aapptec

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