



aappTec

advanced automated
peptide protein technologies

Spirit of Innovation

Apogee



Totally Automated Single Peptide Synthesizer



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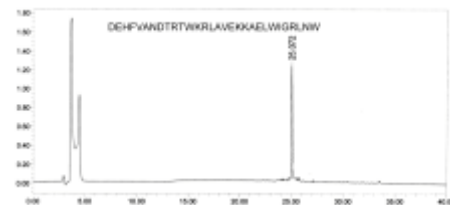
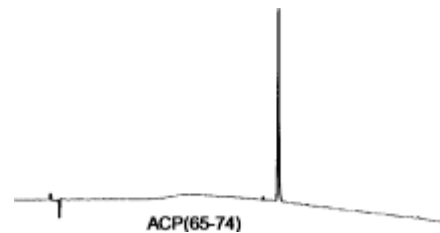
Apogee

Totally Automated Single Peptide Synthesizer

The Apogee enables both novice and expert peptide chemist to prepare high quality peptides in both long or short sequences. Its convenient bar-coded amino acid vials and optimized pre-programmed Fast Boc or Fast Fmoc protocols provide easy, error free synthesis. Utilizing the sophisticated, easy-to-use software, experienced peptide chemists can easily create custom protocols for new experimental chemistry.

Utilizing pre-programmed in-situ neutralization and activation protocols developed by Kent and Alewood, the Apogee prepares high quality peptides with high throughput. Each coupling cycle can be as short as 25 minutes, or as long as 42 minutes, depending upon the chemistry.

The Apogee is a powerful, fully automated instrument with a small footprint. The reactor, reagent bottles, and amino acid vials are easily accessible for any manual intervention desired. Due to its innovative compact design, the Apogee will fit in a small space and does not require a hood.



Preactivation

The Apogee preactivates the next amino acid in the sequence while the current amino acid is coupling. This multi-tasking reduces the coupling cycle time and allows a variety of activation methods to be utilized to optimize over-all synthesis protocols.

Rapid, Accurate Delivery

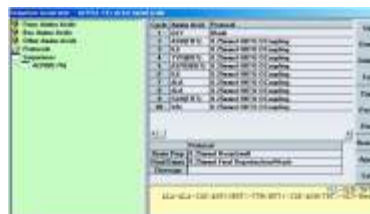
The newly designed, high performance fluidics delivery system permits quick, accurate delivery of volumes as low as 1 mL. All liquid transfers are performed with inert gas pressure to maintain an internal inert atmosphere, allowing chemists to use water-sensitive reagents in their protocols. All contact surfaces are constructed of glass or Teflon[®], ensuring that no residual material is retained from cycle to cycle.

Homogeneous Agitation

To ensure the thorough mixing that is essential for the success of solid phase chemistry, the Apogee utilizes variable speed wrist action shaking, nitrogen bubbling, or a combination of both.

Bar Coded Amino Acid Vials

The Apogee uses convenient bar-coded vials for easy, error-free setup. Simply scan the bar code and load the amino acid vial. The Apogee automatically dissolves the amino acid in the appropriate solvent, then pre-activates the amino acid just before delivery to the reaction vessel.



Bar-coded amino acids with individual pre-defined protocols eliminate sequence errors due to misplacement of amino acids.



Features & Options

- 25 mL reactor
- Four 500 mL reagent bottles
- Three 2 L solvent bottles
- Nitrogen atmosphere
- Fluid transfer by nitrogen pressure regulated to 10 psi (0.7 barr)
- Automatic solvent availability monitoring
- Up to 18 bar-coded amino acid vials
- Bar code scanner
- Online cleavage
- Easy-to-Use Windows Software

Specifications

Width	25" (64 cm) without computer
Depth	15" (37 cm)
Height	32" (81 cm) including reagent bottles
Weight	85 pounds (39 kg) without computer
Fluid Transfer	Nitrogen pressure, regulated to 10 psi (0.7 barr)
Computer	HP Pentium-4, Windows XP™ Professional
Monitor	HP 17" LCD Flat Screen
Printer	HP Inkjet
Warranty	One-year limited warranty on parts and labor



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