Discover® SPPS

Microwave Synthesizer


800
700
600
500
400
300
DURAN
pressure plus
1000 ml
PRODUCT
WASTE
Discover SPPS
Solid Phase Peptide Synthesis System

Advantages of Microwave Heating

Benchtop solid phase peptide synthesis (SPPS) is a time intensive process that often leads to challenges in synthesis and purification. Microwave heating can reduce reaction times and improve purity in peptide synthesis.

Accelerated Reaction Rates

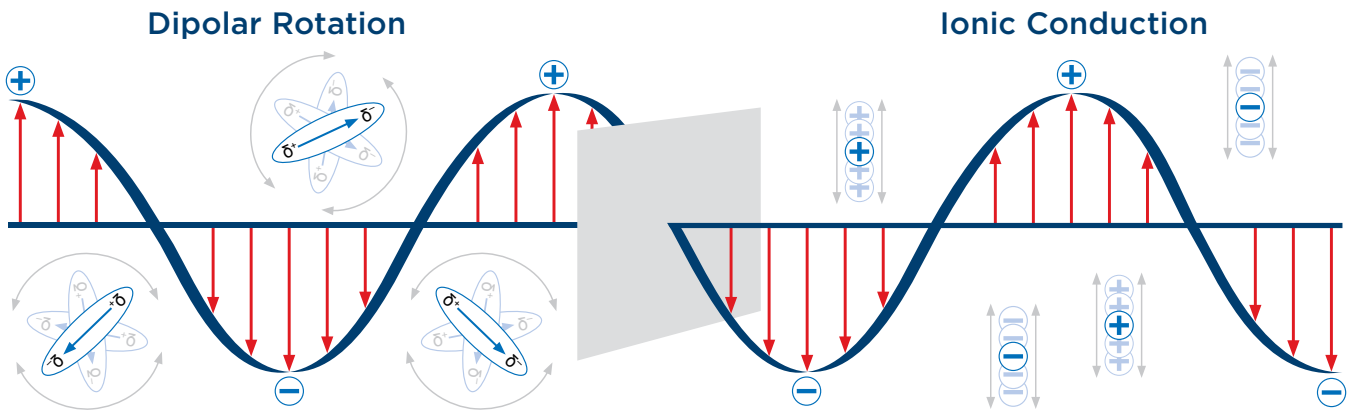
Improved Synthetic Purity

Small Benchtop Footprint

Economically Priced

Pioneers in Microwave SPPS

CEM developed and continues to innovate in microwave assisted SPPS. Microwave heating provides rapid, responsive, and higher efficiency heating that leads to optimized methodology for high speed and purity. The Discover SPPS leverages this legacy for high level performance in a manual synthesizer.



SPPS Method Development

The Discover SPPS empowers peptide scientists to investigate each step of a peptide synthesis through easy access to the reaction mixture after every reaction. The result of each chemical step can be aliquoted or paused for analysis. The Discover SPPS can be used to test reaction conditions before committing to a full peptide synthesis run.

Meeting All Your Needs

Method Development	Automated Synthesis	Peptide Purification
Discover SPPS	**Liberty 2.0 Series**	**Prodigy**

Fast, Flexible, High-Purity Synthesis

	Liberty Lite 2.0 	**Liberty Blue 2.0** 
Cycle Time (at 0.1mmol)	12 minutes	4 minutes
Waste/Cycle (at 0.1mmol)	32 mL	16 mL
Scale Range	0.005 – 5 mmol	0.005 – 5 mmol
Ultra Purity with HeadSpace Flushing	No	Yes
Amino Acid Positions	27	27
Multiple Peptide Synthesis	Up to 4 (HT4)	Up to 4 (HT4) Up to 12 (HT12)

Upgrade to Automation

Expand to our Liberty 2.0 Series upgrades for unprecedented speed and efficiency. Access full cycle automation and high-throughput with 4, 12, and 24 peptides.

Hands on Teaching

Engage students with SPPS by taking them through the process step by step. Utilize rapid microwave synthesis times to streamline time spent in lab. Accelerate coupling and deprotections to illustrate important chemistry and refinement in the peptide synthesis process.

Specifications

Vessel volume:	25 mL, optimized for 0.1 mmol
Chemistry:	Fmoc, t-Boc
Depro + Coupling Time:	8 minutes
Temperature Sensor:	Fiber Optic
Maximum Temperature:	75 °C
Reagent Transfer:	Manual or Vacuum
Cleavage Time:	30 minutes
Upgrades:	MAOS, Liberty Blue 2.0, Liberty Prime 2.0

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