



CEM HT12

1 2 3 4

5 6 7 8 17

9 10 11 12 21 22

25 26 27
Exd Exd Exd

CEM Liberty PRIME
High-Throughput Peptide Synthesizer

Liberty PRIME™

High-Throughput
Microwave Peptide Synthesizer



Overview

The Liberty PRIME peptide synthesizer is the most advanced platform available for microwave peptide synthesis. It features a revolutionary one-pot deprotection and coupling process allowing for a remarkable **2 minute cycle time** with only **8.5 mL waste per cycle** (at 0.1 mmol).

- Individual 20mer's every 45 minutes
- Batches of 24 peptides (20mer's) every 20 hours with only 4.5 liters total waste produced

Chemistry Technology

- One-Pot Coupling/Deprotection
- CarboMAX

Performance

Scale	Cycle Time	AA Equiv.	Waste/Cycle
0.1 mmol	2 m 10 s	5	8.5mL
0.3 mmol	3 m 40 s	5	20mL
0.4 mmol	3 m 50 s	4	20mL

Enhanced Hardware

The Liberty PRIME features enhanced delivery options of the main solvent and Deprotection solutions compared to the Liberty Blue system. These reagents are delivered by a pre-calibrated pumping system, not requiring calibration or affected by restriction changes in the delivery path. This reduces system maintenance and provides an ideal system for GMP environments that is free of calibration.

Accessories & Upgrades

Make your synthesizer even better.

JR 10mer:
WFTTLISTIM-NH₂

Scale:
1.0 mmol

Cycle Time:
10 min

68%



Flex-Add (Large Scale)

Designed for routine syntheses at larger scales (≥ 0.5 mmol), this upgrade allows for optimized deliveries of larger volumes. At these scales, time savings $\geq 40\%$ are achieved.

Integrated Camera

The newly introduced camera for the Liberty Blue™ system enables researchers to monitor microwave peptide synthesis as never before. This fully integrated accessory provides complete visibility of the reaction vessel at any time with 5 mega-pixel quality (2560 x 1920) and 720p video (1280 x 720) capability. This option is beneficial for optimization of synthetic methods and system troubleshooting.



Pressure Rated Bottles

Pressure rated, stainless steel bottles incorporating visual liquid level detection. Available in 2 L, 5 L, 10 L, and 20 L sizes (GL45 cap size).