

Prelude[®] X Peptide Synthesizer

PurePep™ Pathway “Inside”: The design power of the proprietary PurePep Pathway (valve block system) results in zero dead volumes, no cross-contamination, and worry-free performance that lasts for years.

- Heated RVs Improve Difficult Syntheses
- Real Time UV Monitoring
- Fast Efficient Couplings
- Oscillation Mixing and N₂ Sparge
- Flexible Synthesis

6 PARALLEL REACTION VESSELS

- Independent heating in each reaction vessel
- Up to 3 reaction vessels may be used as pre-activation chambers
- Controlled heating between 25°C and 90°C
- 0.005 - 1mmol scale per reaction vessel
- Optional UV monitoring in RV position 1
- Top-down washing

AUTOMATIC CLEAVAGE

- TFA bottle only pressurizes during fluid delivery for increased safety
- 50 mL collection tube capacity
- Customizable cleavage programs
- Adjustable start times



27 AND 6 ADDITIONAL AMINO ACID POSITIONS

- Single-Shot™ delivery feature for special amino acid additions
- Low to no prime volumes
- 10, 120, and 400 mL sizes available
- Pre-Packed amino acid bottles available

8 SOLVENT POSITIONS

- Maximize flexibility
- Timed and sensor deliveries
- Dedicated TFA positions remain vented when not in use
- Automated cleaning routines



Fastest High Quality Performance

RAPID INDUCTION HEATING



- Seconds to reach temperature on all 6 RVs
- Controlled heating between 25°C and 90°C
- Choose temperature for each deprotection and coupling

REAL TIME UV MONITORING

- Saves solvent
- Increases yield and purity
- Decreases purification bottleneck
- Extends deprotection when needed
- Deeper knowledge of difficult peptide
- Monitors reaction in vessel and not the waste
- Get the right peptide the first time



OSCILLATION MIXING

- Creates even heating profile
- No hot spots or burnt resin
- Better than N₂ sparge alone
- Keeps resin off side walls and in solution



Prelude X Specifications

Number of reaction vessels	6 (3 with pre-activation option), no resin loader required
Synthesis scale range	0.005 - 1 mmol per reaction vessel, (6 mmol in total)
Reaction vessel volume	Plastic, disposable - 10 mL, 45 mL Borosilicate glass - 10 mL, 25 mL, 40 mL
Number of solvent positions/sizes	1 primary solvent, 8 L capacity 7 user-defined solvent positions, 1 x 4 L & 6 x 1 L capacities; inquire about other sizes
Number of amino acid positions	27 amino acid bottles plus six Single-Shot only positions for specialty reagents 10 mL (for standard or Single-Shot delivery for specialty reagents), 120 mL, and 400 mL sizes Pre-packaged and empty bottles available
Chemistries supported	Fmoc, t-Boc, organic, peptoid, combinatorial, branched, PNA
Activation	HBTU, HATU, HCTU, TBTU, PyBOP, DIC/OxymaPure, DIC/HOBt, others
Throughput	User defined
Fluid measurement technique	Selectable fixed loop measurement with optical sensors for amino acids and reagents, timed delivery of solvents
Fluid transfer method	Positive pressure with nitrogen Top-down washing
Agitation method	Nitrogen bubbling - adjustable, and/or adjustable optional oscillation mixing Induction heating with IR pyrometer temperature sensing
Cleavage	Automated on-board cleavage, separate fluid path and vent
Waste container	(1) 20 L D.O.T rated container with over-flow sensor in cap
Control interface	Proprietary Prelude X control software, internal CPU, external keyboard, mouse, flat panel monitor
Reporting	Real-time log of each instrument function, print to file or printer
Power	115 VAC/60 Hz or 230 VAC/50 Hz
Dimensions	34.5"W, 28"D, 36.25"H (87.6 cm W, 71 cm D, 92 cm H)
Weight	Approximately 260 lbs. (118 kg)
Warranty	One year, parts and labor
Optional	Dynamic Sequence Programming E-mail-Text Message Status Reporting UV Monitoring Induction Heating Pre-activation Programming Oscillation Mixing

ORDERING INFORMATION

Catalog #	Description
PPX-110/230	Prelude X Multiple Synthesizer, with cleavage, 110/230 VAC, 50/60 Hz

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