SYMPHONY X

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Tool Type: “PEPTIDE SYNTHESIZER”
Location: “Elings Hall 2411”

Supervisor	Tool Lead
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Description: “SYMPHONY X”
Manufacturer: “Gyros Protein Technologies”

About

The Symphony X is a unique automated synthesizer that can independently control 12 reaction vessels (RVs). Up to 24 syntheses can occur simultaneously with the inclusion of the 12 PV positions that operate in tandem with the RVs.

Detailed Specifications

* **Number of reaction vessles:** 24 (12 with pre-activation option), no resin loader required
* **Synthesis scale range:** 0.005 - 24 mmol (up to ~ 2 g of resin per RV)
* **Reaction vessel volume:** Plastic, disposable: 10 mL, 45 mL, Borosilicate glass: 10 mL, 40 mL
* **Number of solvent positions/sizes:** 1 primary solvent position, 20 L capacity 7 user-defined solvent positions, 0.5 - 4 L capacities
* **Number of amino acid positions:** Up to 40 amino acid positions (10, 120, and 400 mL bottles)
* **Chemistry supported:** Fmoc, t-Boc, organic, peptoid, combinatorial, branched, PNA
* **Fluid transfer method:** Positive pressure with nitrogen: top down delivery
* **Agitation method:** Nitrogen bubbling and/or vortex mixing can be adjusted and programabble
* **Cleavage:** Automated on-board cleavage, separate fluid path and vent
* **Waste container:** One 20 L container with over-flow sensor
* **Control interface:** Proprietary Symphony X control software, internal CPU and touchscreen monitor included

Safety Concerns

Operating Procedures

Quick Start Guide

Reference Documentation

Training Documentation