

Precision Tools for Structural Biology with SPT Labtech

Structural biology lies at the heart of understanding life at the molecular level. From protein crystallography to cryo-EM sample preparation, **SPT Labtech** delivers automation solutions that offer unmatched precision, reproducibility, and efficiency – so you can focus on solving the structures that matter.

Why Structural Biologists Choose SPT Labtech

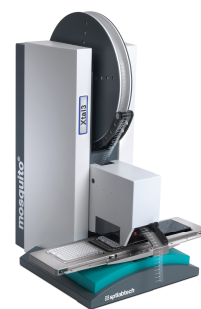
- **Trusted Worldwide** – Proven in crystallography laboratories across the globe.
- **Reproducible, High-Throughput Crystal Screening** – Consistency you can rely on.
- **Efficient Sample Preparation** – Optimised for cryo-EM and biophysical analysis.
- **Maximise Data Quality** – Reduce sample waste and enhance experimental outcomes.

STRUCTURAL BIOLOGY FOCUS

mosquito® crystal

The gold standard in protein crystallisation

- Dispenses nanolitre volumes with exceptional accuracy and minimal waste.
- Experimentally flexible e.g. sitting drop, hanging drop, and microbatch methods.
- Robust and simple to use - even for non specialists.
- Reduces manual pipetting errors and increases crystal hit rates.



chameleon® (cryo-EM sample preparation)

Revolutionising grid preparation for cryo-EM

- Automates blot-free vitrification to eliminate inconsistencies from manual blotting.
- Performs rapid plunge-freezing to preserve native structures and begin to address Air-Water-Interface effects.
- Enables automated cryo-EM workflows with vastly reduced grid handling.
- Actively control ice thickness and its impact on particle distribution.

dragonfly® crystal

A liquid-handling instrument designed specifically for protein crystal hit optimisation within structural biology workflows. It automates combining stock solutions into plates using positive displacement technology.

- Automated, fast, non-contact protein crystal optimisation.
- Simple to use and robust with unique positive displacement tips.
- No liquid classification required and in plate mixing provided via companion MXOne.
- Perfect partner for the mosquito drop setting crystallisation system.



For more information, please contact your Lasec® Sales Representative

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