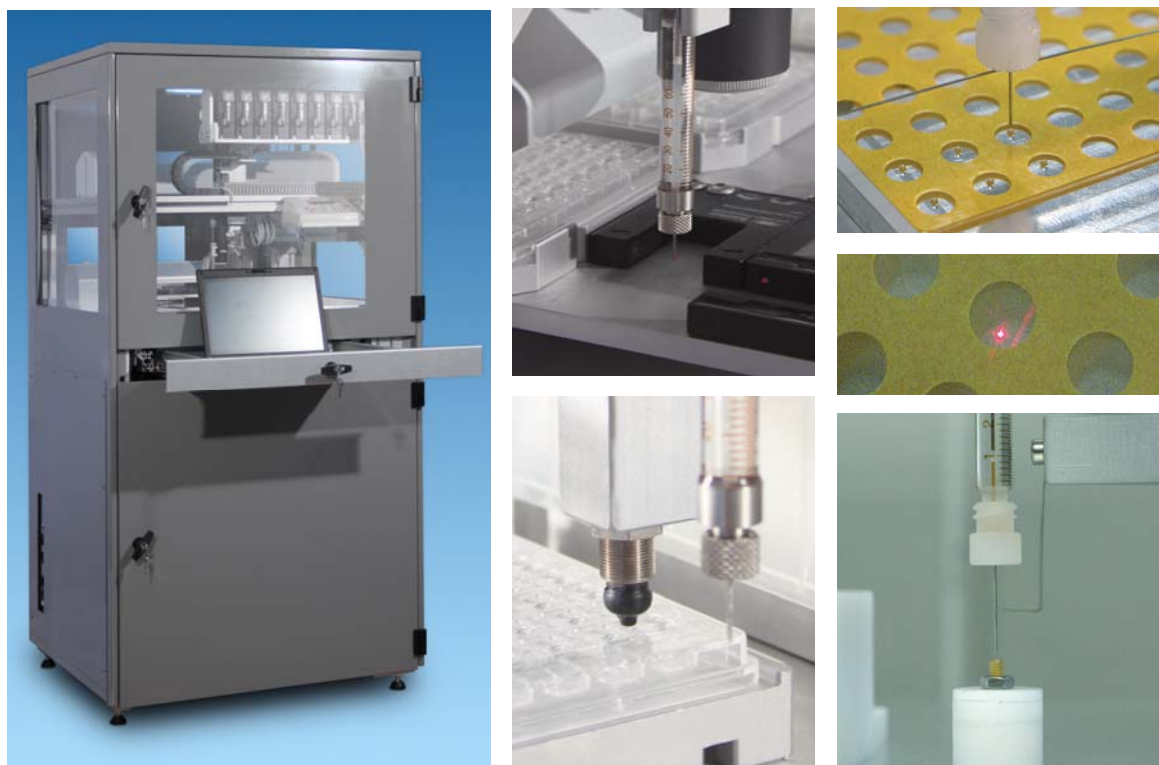


ProCrys Meso Plus

For Professional Protein Crystallization of membrane proteins



Zinsser Analytic has developed ProCrys Meso Plus, a new liquid handling platform for the preparation of 96 in-meso (or cubic phase) proteins, for reliable and easy preparation of protein plates.

The new ProCrys Meso superceeds any other system on the market. With high precision – better than $20\mu\text{m}$ – the system places the extremely viscous lipid cubic phase (LCP) proteins on the crystallization plates controlled by sophisticated mechanical and optical sensors.

A special surface sensor checks the surface of the crystallization plate and adjusts the vertical dispense distance of the pipetting tip in case of improper surface or incorrect leveling of the destination plate. Laser sensors check the proper positioning in x- and y-direction of the dispensing probes.

8 independently-spaced tips add the buffer solution (from $1.0\ \mu\text{l}$) exactly onto the center of the protein. Level detection of the probes and extensive washing avoids cross-contamination.

For constant and dust-free sample preparation conditions ProCrys Meso Plus comes in a humidity controlled industrial standard cabinet with front and side windows for visual control. A port on the back of the cabinet allows robotic access to the plates.

Hardware and software are prepared for easy integration into robotic systems.

- Housed liquid handling platform with 2 pipetting arms
- Accurate and precise dispensing of the protein and the screening solution
- Preparation of own screening solutions on the workbench
- An integrated module ensures the ideal humidity conditions for the process
- Precise and reproducible dispensing of the meso phase
- Sensor controlled shape and travel length of the needle of the protein dispenser
- Software automatically adjusts the coordinates of dispense height and position in the well to the reading of the laser and needle sensors
- WinProCrys software allows maximum flexibility of method development
- Work lists can be imported from Excel® or the customer's LIMS system

Technical Data

Liquid Handling:

Single tip syringe dispenser: 10nl-10µl ± 5%

8 tip independent spacing pipetting module for 0,5µl – 1ml ± 5% with level detection

8 syringe pumps

Positioning precision: 20µm in x-,y-,z

Humidity control

WinProCrys software

Dimensions: W: 87 x D 84 x H 164 cm

Weight: 175 kg

Power Requirements: 110-230V 10 A

Pressurized air requirement: 6-8 bar



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