LCP Lipidic Cubic Phase Screening Kit

SWISSCI

The Lipidic Cubic Phase Crystallisation (LCP) kit facilitates the automation and increased throughput of LCP crystallisation set-ups. This novel system enables LCP screening to be performed accurately and with ease using manual or automated systems to complete the delivery of the solutions.

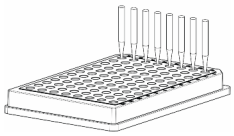
Working with innovative scientists Professor Gebhard Schertler and Pat Edwards from the MRC laboratory in Cambridge, Swissci AG developed a new system for setting up LCP screens.

The Swissci LCP kit ensures crystallography set-up is fast, cost effective and robotically adaptable. In addition Ultra Violet light can be used with the glass / UVP polymers to visualise proteins without the light scattering associated with traditional polymeric solutions.

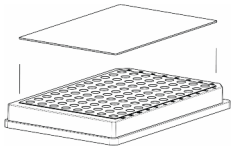
The LCP technique for crystallising membrane proteins can be difficult and time-consuming to set up as it utilises highly viscous lipid mesophases to reconstitute proteins. Swissci AG and MRC overcame these problems with the LCP kit. This product combines an easy to use sandwich system with dedicated coupling tapes and thin film UVP cover plates. It conforms to ANSI/SLAS 1-2004-Standards and thus is perfect for modern automation applications where high throughput is required.

1 step

2 step



3 step



The advantages of the LCP kit

Ready to use the plate fits laboratory robotics and uses a Swissci unique polymer to ensure UV visualisation is not compromised by polarisation.

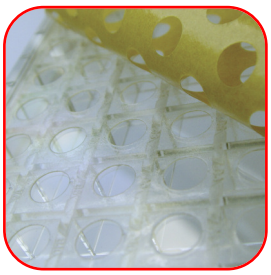
Easy sealing with dry tabbed adhesive tape exposure and thin UVP cover film. Included in the kit is a plate levelling device to ensure the cover is perfectly adhered to the bottom LCP plate.

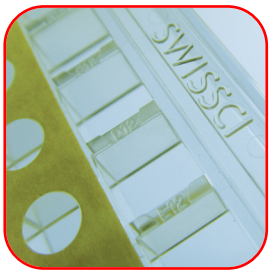
No cross contamination and ANSI/SLAS 1-2004-Standard.

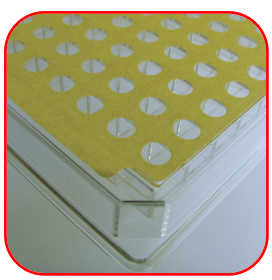
Sandwich plate can be easily removed from the base plate when required - in-situ X-ray data collection and structure determination is then enabled.

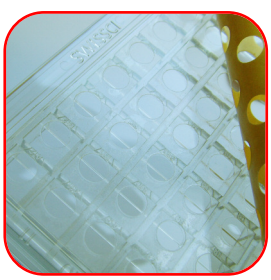
The product comprises a 700 micron thick UVP base plate with a 100 micron top pressure adhesive that has a yellow ready to remove cover sheet and a separate 100 micron UVP cover film with protective dust cover. The kit is completed with a Swissci plate levelling device.

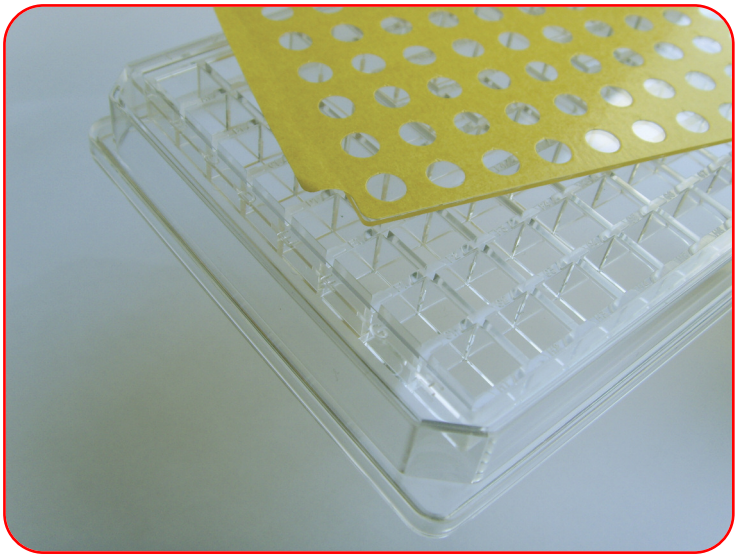
Maximum volume of drop 1.6 microlitres.











LCP kit product number - box of 20 plates - Code LCP96T-UVP70U

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