



## LCP (Lipidic cubic phase) Sandwich Set

The LCP sandwich set consists of a base glass slide and an optimized cover slip. This product has been developed jointly with the renowned Scripps Research Institute in La Jolla, California, USA.

### Application

- optimized for the crystallographic study of membrane proteins. References: V. Cherezov, J. Clogston, M. Z. Papiz, M. Caffrey (2006) Room to Move: Crystallizing Membrane Proteins in Swollen Lipidic Mesophases. Journal of Molecular Biology 357, 1605 – 1618
- developed at the NIH Roadmap Center for membrane protein research (<http://jcimpt.scripps.edu>) and routinely used in GPCR structural biology. References: V. Cherezov, D. M. Rosenbaum, M. A. Hanson, S. G. Rasmussen, F. S. Thian, T. S. Kobilka, H. J. Choi, P. Kuhn, W. I. Weis, B. K. Kobilka and R. C. Stevens (2007) High-resolution crystal structure of an engineered human beta2-adrenergic G protein-coupled receptor. Science 318: 1258-65
- other applications using LCP membrane protein structure based in drug design

### Bottom slide

- dimensions: approx 127.8 x 85.5 mm, thickness approx. 1 mm
- with superhydrophobic glass surface
- covered with a 0.2 mm high spacer. This spacer has 96 recesses of 5 mm diameter. They are consistent with the SBS format for robotic handling. The spacer has an adhesive surface to which the hydrophobic coverslip attaches. The crystallization drops are, hence, sealed in these reaction chambers.

### Cover slip

- dimensions: approx 112 x 77 mm, thickness No. 1.5 (0.16 to 0.19 mm)
- with superhydrophobic glass surface
- optimized for bright field, UV and fluorescent microscopy

Cat. No.	Unit
0890003 LCP sandwich set: Bottom slide and cover slip	20

