Molecular Dimensions

Modern Crystal Growth Plates for all techniques

Sitting drop

MRC Plate

The fourth generation **2 Drop Plate** was designed by crystallographers at the MRC Laboratory of Molecular Biology in Cambridge, UK. The **Triple Drop Plate** has similar features with 3 protein drop positions. Available in polystyrene or UV polymer.

- Raised, wide wells make crystal retrieval easy.
- Conical wells for exceptional drop placement and viewing.
- Screening and crystallogenesis experiments can be performed in one plate (10 nL-5 µL drops).
- The reservoirs hold volumes from 50-100 µL.
- Navigate under a microscope easily with Micro-numbered wells.
- Top of the plate has wide surfaces for better sealing with tape.

The MRC MAXI Plate replaces the need for 24-well sitting drop plates and is ideal for **optimization**.

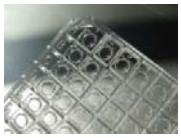
- Place larger drops for bigger crystals whilst consuming less screen solution.
- All the market leading features of the standard MRC plate (Micro-numbering, optically superior wells, optimum sealing area etc.).
- Typical volumes are 200-400 µL of reservoir and 1 µL -10 µL drop size.
- SBS format and available in UV transmissible polymer and standard polystyrene.

Molecular Dimensions also supplies a range of **sealing sheets** for sealing sitting drop plates and setting up hanging drops on 96-well plates

Microbatch

MRC Under Oil Crystallization Plate

This new design was also developed at the MRC Laboratory of Molecular Biology in collaboration with Dr Jan Löwe and colleagues.



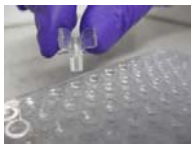
- Conduct 2 experiments sequentially.
- Run microbatch under oil.
- Allow to evaporate as a second stage with volatile oil.
- Made from an optically superior UV Transparent polymer.
- New design of the wells allows easy crystal viewing and retrieval.
- 96-well SBS plate, in UV transmissible polymer.

All of these products are available pre-barcoded on orders over 400 plates.

Hanging drop

The Screw Top Hanging Drop Plate

Individual wells can be identified and removed without any disturbance to the growing crystals inside the plate. This 96-well plate, is the result of many years of experience in successful robotic high-throughput crystallization.

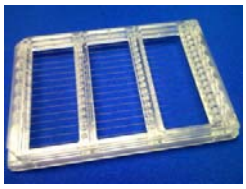


- Ideal for both nanolitre screening and microlitre optimization.
- Raised wide wells make the crystal viewing and mounting especially easy.
- Allen-key-system allows for smooth removal and subsequent microscopic investigation / X-ray.
- Micro-numbering so you will never lose the location under the microscope.
- Integrated advanced quality sealing tape.
- Typical volumes - 50-200 µL of reservoir and 10nl-5 µL drop size.
- Made from an optically superior UV transmissible polymer (UVP).
- Fully covered by design and patent protection.

Counter diffusion

CrystalHarp™

This new SBS format plate with quartz capillaries, allows crystal growth and optimization with *in-situ* X-ray diffraction in the plate, or the individual capillaries can be mounted in standard CryoCaps. In other words, from screening to data collection with minimum handling. CrystalHarp was developed and patented at the Institute of Biochemistry, University of Zurich, Switzerland. Each CrystalHarp is supplied with filling and sealing devices and instruction booklet.



- 48 quartz capillaries per plate allowing use of the successful interface diffusion method.
- Proven experiment length (30mm) samples large amounts of crystallization phase space.
- *In-situ* X-ray diffraction – shoot through the plate or mount individual capillaries in standard CryoCaps (no special equipment needed). No scale-up needed.
- Unique capillary material allows RT data collection or cryo-cooled in a liquid nitrogen stream (with or without the use of cryo-protectants).
- SBS format suitable for high-throughput imaging.
- Simple set-up and analysis, seal with tape or oil.
- Gentle introduction of cryo-protectants or derivatives for phasing studies.

Molecular Dimensions

moleculardimensions.com

nqa. ISO 9001 Registered

UKAS QUALITY MANAGEMENT 015