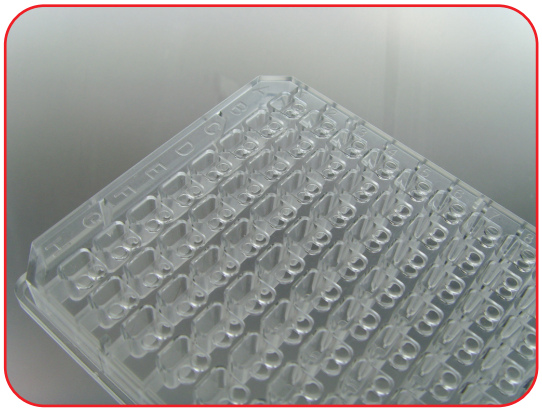
MRC Crystallisation Plate

SWISSCI

The new MRC Crystallisation Plate is a breakthrough for protein crystallisation presented in a 96-well plate format.

The plate was developed at the MRC Laboratory of Molecular Biology (Cambridge, UK) in collaboration with Dr. Jan Lowe. It is the result of many years of experience in successful robotic high-throughput crystallisation and combines many of the neccessary features not earlier available to the crystallographer.

The new MRC crystallisation Plate offers unique properties that make it ideal for both nanolitre crystallisation screening and mircoliter optimisation alike. Made from optically superior polymer and with a new design of the wells, the plate allows easy crystal viewing and retrieval.



The Advantages of the new MRC Crystallisation Plate

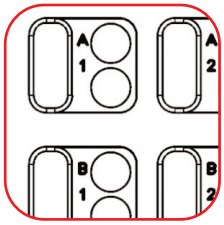
Easy crystal retrieval
Raised wide wells make the crystal mounting especially easy.

Easy viewing
The wells are a wide conical shape and have a lens effect for perfect illumination.
The mirco-numbering ensures you will never get lost again (visible by microscope).
The optically superior polymer is UV transmissible and may be used to differetiate between salt and protein crystals.

Better sealing
Wide partition walls between the wells give plenty of area for good sealing with tape.
No central bending occurs in this very robust structure.

Wide range of volumes
Typical volumes are 50-100 µl of reservior and 10 nl-5 µl drop size. The 192 optical wells offer twice the number of experimental constructions .

SBS standard
The plates are designed to the 96-well SBS standard for all common holders and external numbering (A-H, 1-12) with corner location make the plate easy to use in a robotic sampler.
The MRC plate is suitable for centrifugation.
The unique 2 drop protein crystallisation plate offers a new way of sitting-drop crystallography.
The 192 wells are optically perfect designed to observe crystals under a microscope.
The wells are doubled, providing an unique security of growing crystals.



MRC plate features

Easy to fill 96-well structure - typically 85 µl per buffer well
Standard SBS form for automation
Optically perfect wells with lens effect for a better view with microscope
Microscopic identifier within wells, simplifying the orientation under the microscope
Maximum volume of the buffer reservoir is 100 µl, typically 5 µl is used for the protein well filling
Grown crystals are easy to identify and to remove from well due to a low-binding polymer
Plate with 2 wells for each sample, better growing security with duplicates or the ability to use well two as a mixing station.
Wells fill without micro-droplets jumping out due to static effects
Wells can be individually sealed with a perfectly flat upper surface designed to ensure integrity of each well section

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