

MRC

Under Oil 96 well Crystallisation Plate

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The SWISSCI MRC Under Oil Crystallisation plate is a scientifically designed product for macromolecular crystallisation presented in a 96 well format.

The plate was developed at the MRC Laboratory of Molecular Biology (Cambridge, UK) in collaboration with Dr. Jan Löwe and colleagues.

It is a result of many years of experience in successful robotic high-throughput crystallisation and combines many of the features not earlier available to the crystallographer.



The SWISSCI MRC Under Oil 96 Well Crystallisation plate uses oil as a seal and active diffusion mechanism for the purpose of running macromolecular crystallisation under oil. Following the initial experiment, the solution under the oil is sequentially allowed to evaporate as a second stage enabling further crystal growth as a consequence of concentration. This is different from other experiments in that the conditions are then extreme in nature and permit new conditions to arise.

The SWISSCI MRC Under Oil 96 well Crystallisation plate offers unique properties that make it ideal for both nanolitre crystallisation screening and microlitre 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 MRC Under Oil 96 well Crystallisation plate

Easy crystal retrieval

Raised wide wells make the crystal mounting especially easy

Easy viewing

The wells are wide conical and have a polished surface on both sides important for perfect illumination.

The micro numbering ensures that you will never get lost again (visible by microscope).

The optically superior polymer is even UV transmissible and may be used to differentiate between salt and crystals.

Better sealing

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

Recommended volumes

Typical volumes validated for these plates are 20 microlitres of oil with a shot through sample delivery of 100 to 200 nanolitres. The 20 microlitre volume of the individual wells gives the user a wide range of macromolecular crystallisation possibilities.

ANSI/SLAS 1-2004 Standard

The plates are designed to the 96 - well ANSI/SLAS 1-2004 standards for all common holders and external numbering (A - H, 1 - 12) with corner location that make the plate easy to use in a robotic sampler. The plate can also be centrifuged for better results.

The unique MRC Under Oil 96 well Crystallisation plate offers a new way of microbatch crystallography. The 96 wells are optically perfect designed to observe crystals under a microscope.

Unique Polymer

The proprietary polymer is optically perfect - ultra low binding and guaranteed to have central drop location in the well. There are no static effects and thus micro-droplet jumping is avoided. Excellent long term storage.

HR3-102 MRC Under Oil Crystallization Plate 10 plate case

HR3-104 MRC Under Oil Crystallization Plate 40 plate case

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