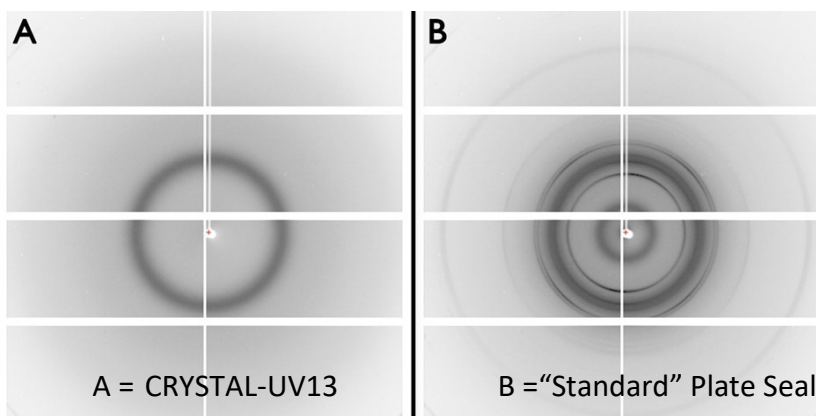


About

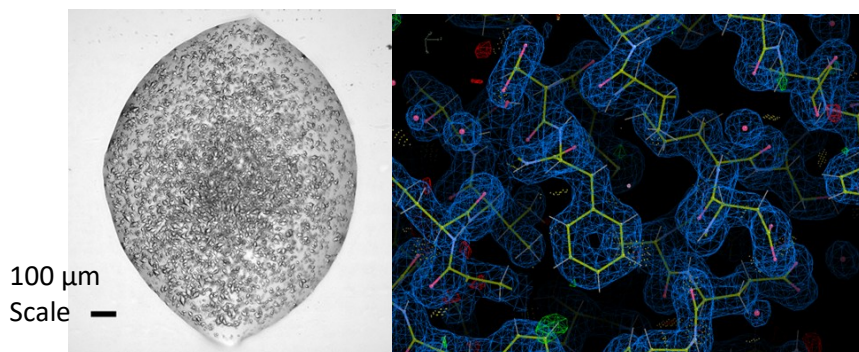
Swissci have developed a bespoke plate seal for in situ X-ray diffraction experiments with VMXi beamline at the Diamond Light Source UK. The seal is ultra thin and virtually x-ray transparent to maximise the data you get out of your crystals. The background of the diffraction images is greatly reduced as the seal has no encapsulated glue in the wells



600 images were summed and contrast was set to be equivalent between the two seals. Additional features are evident in "standard" plate seal due to material and encapsulated glue.

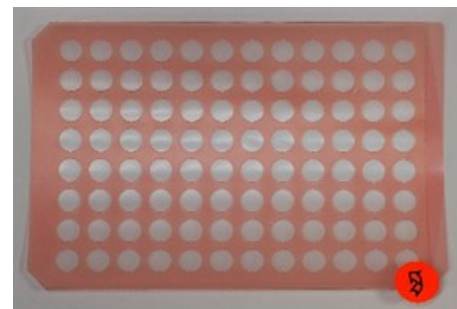
Benefits include:

- Collect data on samples 10-20 μm in size to higher resolution and in greater numbers vs "standard" seal.
- Greater resolution from routine X-ray diffraction data collections; typically 0.2-0.4 Å improvement (sample dependent).
- Improved quality electron-density maps which are easier to interpret.



Seven drops were collected in serial fashion, rastering the plate through the beam. Drop containing thaumatin crystals grown using batch method. Clear electron density for protein structure can be seen from seven drops. Greater number of crystals picked up by processing, despite crystal density remaining consistent between drops. Improvement of signal strength and resolution was observed consistently in all experiments

Our thanks to Dr James Sandy for the extensive testing and validation of this product



FACTS

- Collect data on samples 10-20 μm in size
- Greater resolution
- Increased volume data collection
- Improved quality electron-density maps
- Cleaner diffraction images
- Easier to interpret data
- Easier to see weaker diffraction

FEATURES

- Multi-layer seal
- 13 μm UVP Film
- 200 μm Pressure Activated Adhesive
- Removable Dust Protection Sheet
- No adhesive in wells
- Compatible with in-situ plates
- Easy use

Order Information:

Product: Swissci In-Situ Seal

Code: CRYSTAL-UV13

Details: Pack 10

Contact: sales@swissci.com

Web: www.swissci.com