

In-Situ-01™ Crystallization Plate

PRODUCT HIGHLIGHTS:

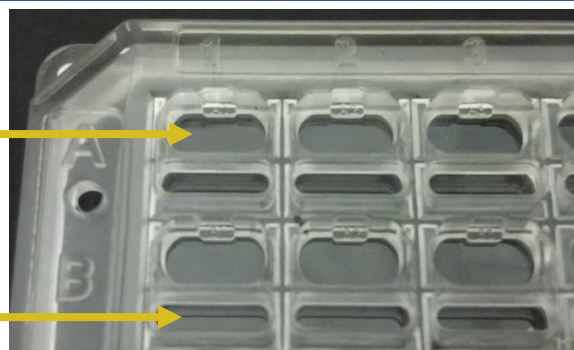
- Low Profile 96-well SBS format
- Screening or Optimization
- Used as Sitting or Hanging Drop
- Highly UV and X-ray Transparent
- Optimized for *in-situ* X-ray screening
- Low birefringence
- Ideal for transporting crystals

Protein Drop Areas:

1 – 6 drops
(2 μ l – 50 nl)

Reservoir Wells:

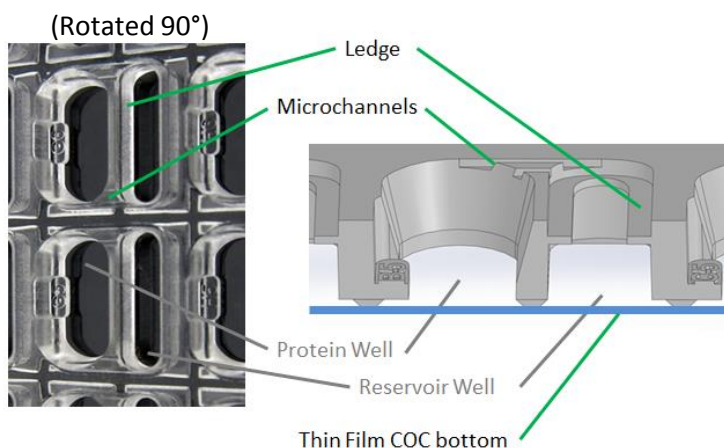
40 μ l



Patent Pending Design Features:

Vapor Communication Microchannels

- Allow vapor equilibration between reservoir and protein well, at the same rate as in existing plates.
- **Strongly inhibit liquid transfer** between reservoir and protein wells due to, e.g., rough handling, shipping.
- Plate can be **rotated to any orientation** without liquid transfer out of the reservoir.

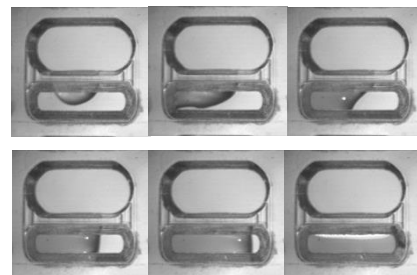


Reservoir Well Liquid retention ledge

- **Prevents liquid motion** out of the well and
- Ensures **uniform well filling**, for larger reservoir volumes in a low profile plate.

Thin Film Bottom

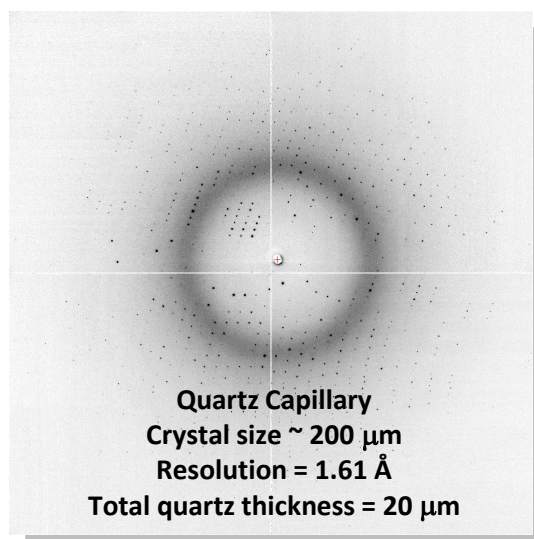
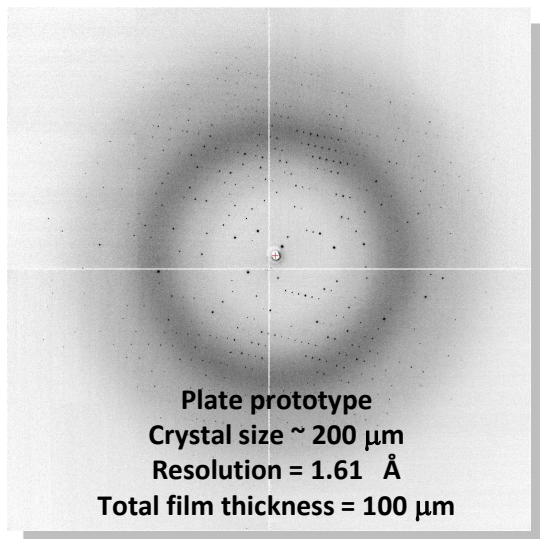
- Ultrasonically welded thin film bottom has the **lowest X-Ray diffraction** and **best UV transparency** of any plate.



In-Situ-01™ Crystallization plate

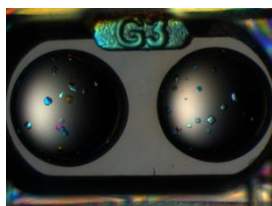
IN-SITU PERFORMANCE:

HEWL crystals were grown in the plate and *in situ* X-ray examination was performed at CHESS. The same crystals were harvested from the plate, placed inside 10 micron-wall quartz capillaries, and again examined by X-rays.



Versatility:

Screening or Optimization, Sitting or Hanging



TECHNICAL SPECIFICATIONS

Frame	
Material	COC (injection molded)
Length	128 mm
Width	85 mm
Height	9.2 mm
Wells	96
Protein drops/well	Single or Multi
Protein drop size	Up to 2 μl
Reservoir volume	Up to 45 μl

Thin film bottom	
Material	COC (rolled film)
Thickness	100 μm

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