SWISSCI

DIAPLATE™
Crystallisation Method

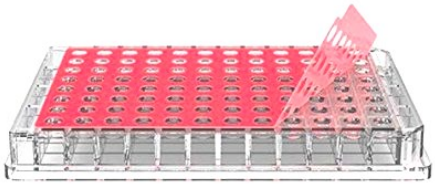
Preparing the protein

Step 1. Prepare the protein in buffer at the desired concentration and centrifuge (>16,000 g, 10 min) to pellet any unwanted material.

Step 2. Aliquot the protein into 200-µL PCR tubes or similar.

Setting up the DIAPLATE™

Step 3. Peel back and remove the red adhesive cover tape from the 200-µm pressure adhesive spacer. **Take note of the position of A1.**



Step 4. Using a multi-channel pipette, load up to a maximum of 3.2 µL of protein into each well

Step 5. Position the 200-µm UV Cover Film onto the 96 wells and check integrity. Please ensure the protective film is facing up.

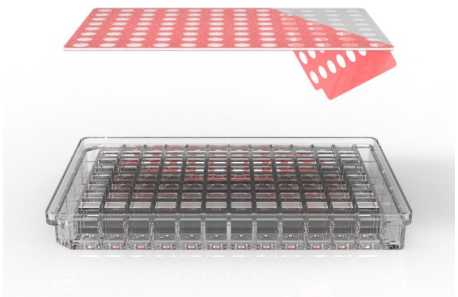
Step 6. Use the included sealing paddle to press down over the UV Cover Film to activate and seal the pressure adhesive.

Step 7. Invert the plate and take note of the position of A1. **The well positions are now mirrored.**

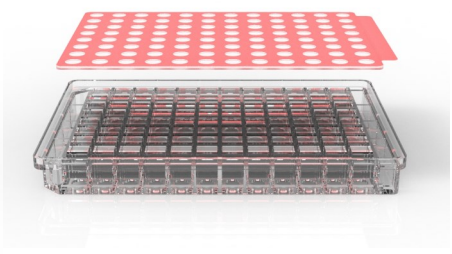
Step 8. Load up to a maximum of 0.35 mL of crystal screen solution into each of the wells.

Step 9. Carefully seal the wells with the UVXPO Evaporation Cover Plate by peeling away the red protective film, revealing the adhesive layer. Carefully line up the cover and press down against the wells using the provided paddle **(A).** *Alternatively,* leave the red protective layer on and use the UVXPO Evaporation Cover Plate as dust protection during dialysis by placing onto the wells with the red adhesive facing up (recommended if stepwise dialysis is required) **(B).**

Step 10. Place the plate (inverted) in a suitable temperature-controlled incubator for crystal growth.



(A) Seal plate



(B) Use as dust protection