

Crystallization experiments:

- All purified proteins are passed to crystallization experiments.
- We use in-house custom crystallization screens that were developed based on Hampton screens and our accumulated experience.
- To choose the right protein concentration we perform a pre-crystallization experiment using two crystallization solutions with different precipitants: 25% PEG3350 and 2 M ammonium sulphate, both buffered with 0.1 M sodium Hepes pH 7.5.
- Proteins are crystallized in 96 well plates using sitting-drop vapor diffusion technique.
- We set up our crystallization experiments with help of a liquid handling robot (Mosquito, TTP LabTech) using a volume of 500 nL, or manually by mixing 2 μ L of the protein solution with 2 μ L of crystallization solution.
- Crystallization experiments are performed at room temperature.