

Materials List for:

Microcrystallography of Protein Crystals and *In Cellulo* Diffraction

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URL: <https://www.jove.com/video/55793>

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Materials

Name	Company	Catalog Number	Comments
Sf9 cells	Life Technologies		
SF900-SFM insect medium	Life Technologies		
1 L cell culture flask	ThermoFisher Scientific		
Shaking incubator for insect cell culture	Eppendorf		
50 mL conical tubes	Falcon		
Centrifuge with swing buckets for 50 mL tubes	Eppendorf		
Sonicator equipped with a 19 mm probe	MSE Soniprep 150		
Glass slides	Hampton Research		
Hemocytometer	Sigma-Aldrich		
Propidium iodide	ThermoFisher Scientific		
BD Influx cell sorter	BD Biosciences		
Hampton Heavy atom screens	Hampton Research		
Microcentrifuge	Eppendorf		
Micromesh	Mitigen		700/25 meshes offer a larger surface. Indexed meshes can be purchased for systematic studies.
Paper wick	Mitigen		The size of the paper wick can be varied for optimal flow. This will largely depend on the nature of the crystals and cryoprotectant used.
Ethylene glycol	Sigma-Aldrich		
Trypan blue	Life Technologies		
MX2 microfocus beamline	Australian Synchrotron		A list of available microfocus beamlines can be found in Boudes <i>et al.</i> (2014) <i>Reflections on the Many Facets of Protein Microcrystallography</i> . Australian Journal of Chemistry 67 (12), 1793–1806, doi:10.1071/CH14455.