

Materials List for:

Synchrotron X-ray Microdiffraction and Fluorescence Imaging of Mineral and Rock Samples

Camelia V. Stan¹, Nobumichi Tamura¹

¹Advanced Light Source, Lawrence Berkeley National Laboratory

Correspondence to: Nobumichi Tamura at ntamura@lbl.gov

URL: <https://www.jove.com/video/57874>

DOI: [doi:10.3791/57874](https://doi.org/10.3791/57874)

Materials

Name	Company	Catalog Number	Comments
ThorLabs KB3x3 kinematic base, top half	ThorLabs	KBT3X3	Several of these bases are available for borrowing. The base must be the imperial and not the metric type, otherwise it will not properly fit on the stage.
Scotch double sided tape			Available at any office supply store, and also at the beamline
Polyimide/Kapton tape	Dupont		Several widths are commercially available. Any width that is enough to cover the sample is fine.
Samples			Provided by user, site of interest should be polished if larger mapping is desired.
Software: XMAS			Downloadable here https://sites.google.com/a/lbl.gov/bl12-3-2/user-resources
Software: IDL 6.2	Harris Geospatial Solutions		
X-ray Diffraction Detector	DECTRIS Pilatus 1M		hybrid pixel array detector
Huber stage			stage for detector
Vortex silicon drift detector			silicon drift detector
IgorPro v. 6.37			Plotting software