

**ALL BOLDED ITEMS MUST BE RECORDED FOR THIS SAMPLE**

*Please complete and submit form to X-ray  
diffraction facility prior to data collection*

**Submitted By:** \_\_\_\_\_ **PI:** \_\_\_\_\_ **Date:** \_\_\_\_\_

**Account Number in iLabs:** \_\_\_\_\_

**Complete list of elements (mandatory) and sample info/structure:**

**Sample ID:** \_\_\_\_\_ **(This must be clearly labeled on vial)**

**X-ray Source:** Cu-Source (1.54 Å) ☐ Ag-Source (0.56 Å) ☐

**Requested Temperature:** \_\_\_\_\_ K

**Stability:** Air/Water Stable: ☐ Yes ☐ No (explain) \_\_\_\_\_

**Known Structure:** ☐ No ☐ Yes if yes, ICDD #: \_\_\_\_\_

**Requested 2θ range:** \_\_\_\_\_ to \_\_\_\_\_ °

**Hazards and Precautions:**

Choose toxicity level and list any special precautions needed (ex: weigh out/measure in fume hood only). See Chemical Hygiene Plan or other sources for best choosing designation (ex.: safety data sheet, reagent bottle label, EH&S consult, contains known toxin, etc...)

\_\_\_ Highly Toxic (LD50 < 50 mg/kg)

\_\_\_ Moderately Toxic (LD50 = 50-500 mg/kg)

\_\_\_ Slightly Toxic (LD50 > 500 - 5000 mg/kg)

**Explain hazards/precautions:**

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Crystallographer Notes (Completed during data collection):

Powder Color: \_\_\_\_\_

Powder Mounting: ☐ Oil/Loop ☐ Epoxy/Fiber ☐ In Capillary

Detector Distance: \_\_\_\_\_ mm

Number of detector positions: \_\_\_\_\_

Collection Type: ☐ Phi ☐ Fast Phi ☐ Gandolfi

Number of kappa positions: \_\_\_\_\_

Exposure: \_\_\_\_\_ sec/frame

Number of Frames: \_\_\_\_\_

Notes:

In ALL publications containing data collected at the UB  
diffraction facility please acknowledge: Rigaku XtaLAB Synergy-  
S, a part of the Chemistry Instrument Center (CIC) at UB, was  
purchased with **NSF CHE-2216151**.