

# Request for Crystal Structure Determination

UM# \_\_\_\_\_

**SUBMITTED ON:** \_\_\_\_\_

**User Name:** \_\_\_\_\_

**E-mail, Phone\*:** \_\_\_\_\_

**Advisor Name:** \_\_\_\_\_

**E-mail, Phone:** \_\_\_\_\_

Signature: \_\_\_\_\_

**Organization:** \_\_\_\_\_

**Department:** \_\_\_\_\_

Address: \_\_\_\_\_

**KFS#, PO#, etc** \_\_\_\_\_

**Billing contact:** \_\_\_\_\_

**E-mail, Phone:** \_\_\_\_\_

Signature: \_\_\_\_\_

\* Items in italic are optional, in bold – mandatory. For more info check tooltips.

- "Powder" Diffraction Pattern
- Unit Cell ONLY,  High precision
- Search CCDC, ICSD
- Data Collection ONLY
- Confirm Preliminary Structure
- Confirm Amot Labeling
- Full Structure Determination
- Full Report +  CheckCIF report
- Simulated Precession 2D images

*Change only if needed*

Radiation	<input type="radio"/> MoK <sub>α</sub>	<input type="radio"/> CuK <sub>α</sub>	<input type="radio"/> :	
Resolution d(Å)	<input type="radio"/> 0.8 Å	<input type="radio"/> 0.7 Å	<input type="radio"/> max possible	<input type="radio"/> :
Glove box use:	<input type="radio"/> No	<input type="radio"/> Store only	<input type="radio"/> Mount & Store	<input type="radio"/> :
Special conditions	<input type="radio"/> No	<input type="radio"/> Refrigerator	<input type="radio"/> Frizer	<input type="radio"/> :
Mounting in	<input type="radio"/> Oil (regular)	<input type="radio"/> Fluorinated oil	<input type="radio"/> Air	<input type="radio"/> :
Mounting on	<input type="radio"/> Nylon loop	<input type="radio"/> Glass fiber	<input type="radio"/> Capillary	<input type="radio"/> :
Temperature	<input type="radio"/> [-123°C/150K]	<input type="radio"/> [-153°C/120K]	<input type="radio"/> [-173°C/100K]	<input type="radio"/> :
Unit cell vs Temp.	Start: <input type="text"/>	End: <input type="text"/>	Stop: <input type="text"/>	
	Start: <input type="text"/>	End: <input type="text"/>	Stop: <input type="text"/>	

*For XCC use only*

**Data Collection: Conducted on:**

Crystal	Shape:	Color:	Size:	
Detecor	SDD (mm):	2θ°:	Total time (h):	
Scan:	Start, °	Step, °	# frames	τ, sec
ω				φ:
φ				ω:

**Structure Determination. Completed on:**

Unit Cell					
Search-match	<input type="checkbox"/> none	:			
Integration					
Space Group					
Solving	<input type="radio"/> XT, <input type="radio"/> XS, <input type="radio"/> XM, <input type="radio"/> :				
Twinning, type	<input type="radio"/> none, <input type="radio"/> regular, <input type="radio"/> split crystal, #twins: <input type="radio"/> mero-, <input type="radio"/> non-mero-, <input type="radio"/> pseudo-merohedral				
Absorption	<input type="radio"/> Sadabs, <input type="radio"/> Twinabs, <input type="radio"/> Face-index, <input type="radio"/> none <input type="radio"/> Ellipsoid, <input type="radio"/> Lamina ( ), <input type="radio"/> :				
Squeeze	<input type="checkbox"/> Yes	# electrons:	Vol:		
Disorder	<input type="checkbox"/> none, <input type="checkbox"/> tails, <input type="checkbox"/> solvent, <input type="checkbox"/> WMD, <input type="checkbox"/> OD				
Quality	R1: <input type="text"/>	<input type="checkbox"/> Publ. <input type="checkbox"/> Connect. <input type="checkbox"/> Low.res./qual.			
Status					