

# 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: \_\_\_\_\_

Chemical Formula or possible Chemical Elements:

--

Graphic/Structural Formula:

Provide  on next page or  in the link below:

--

Solvents and compounds used in the synthesis:

--

Stability & other relevant properties of samples, etc:

--

Uwanted structures UM#, CCDC/ICSD#, or Unit Cell(s):

--

Repeating structure determination for UM#

--

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

*Change only if needed*

<input type="checkbox"/> "Powder" Diffraction Pattern
<input type="checkbox"/> Unit Cell ONLY, <input type="checkbox"/> High precision
<input type="checkbox"/> Search CCDC, ICSD
<input type="checkbox"/> Data Collection ONLY
<input type="checkbox"/> Confirm Preliminary Structure
<input type="checkbox"/> Confirm Amot Labeling
<input type="checkbox"/> Full Structure Determination
<input type="checkbox"/> Full Report + <input type="checkbox"/> CheckCIF report
<input type="checkbox"/> Simulated Precession 2D images

Radiation	<input type="radio"/> MoK $\alpha$	<input type="radio"/> CuK $\alpha$	<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:	End:	Stop:	
	Start:	End:	Stop:	

*For XCC use only*

**Data Collection: Conducted on:**

<b>Crystal</b>	Shape:	Color:	Size:
<b>Detector</b>	SDD (mm):	2 $\theta$ °:	Total time (h):
<b>Scan:</b>	Start, °	Step, °	# frames
$\omega$			$\tau$ , sec
$\phi$			Positions
			$\varphi$ :
			$\omega$ :

**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="checkbox"/> Publ. <input type="checkbox"/> Connect. <input type="checkbox"/> Low.res./qual.
Status	