

Request for X-ray Powder Diffraction Experiment (XRD)

Lab. Book # _____

SUBMITTED ON: _____

User Name: _____

E-mail, Phone:*

Asvisor 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.

| | |
|--|--|
| <input type="radio"/> D8 Advance | $2\theta_{\min}$ [5°]: _____ ° |
| <input type="radio"/> C2 Discover | $2\theta_{\max}$ [90°]: _____ ° |
| <input type="radio"/> X'Pert MRD | $2\theta_{\text{step}}$ [0.02°]: _____ ° |
| <input type="radio"/> Powder Pattern ONLY | Exposure [0.5]: _____ sec |
| <input type="radio"/> Database Search-Match | Total time [0.6]: _____ hrs |
| <input type="checkbox"/> <i>Unit Cell Refinement</i> | Spin sample: <input type="radio"/> Yes, <input type="radio"/> No |
| <input type="checkbox"/> <i>Rietveld Refinement</i> | Temperature: _____ °C |
| <input type="checkbox"/> <i>Advanced Analysis</i> | Environment: _____ |

What information is expected from this study:

Expected phases or list of **possible chemical elements**:
*Stability & other relevant properties of samples, etc:**Experimental conditions if not standard:***List sample names below and write # on the samples**

#1 _____

#2 _____

#3 _____

#4 _____

#5 _____

#6 _____

#7 _____

#8 _____

FOR XCC USE ONLY

| # | Powder Diffraction Services ^a | Rate ^b | x | Charges |
|----|---|-------------------|---|---------|
| 1. | Equipment Usage: | | | |
| | a Data Collection /sample | 1 | | |
| | b Instrument time /hour | 1 | | |
| 2. | Operator assistance: | | | |
| | a Sample Prep & Setup /sample | 1/4 | | |
| | b Identif./Search-Match /phase | 1/4 | | |
| 3. | Supervising/Training: | | | |
| | a Supervising Users /month | 1/4 | | |
| | b Training (new users) /user | 3 | | |
| 4 | Advanced Analysis: | | | |
| | a Ab initio Indexing /cell | 1 | | |
| | b Unit Cell Refinement /cell | 1/2 | | |
| | c Profile/Ful Pattern /pattern | 1 1/2 | | |
| | d Quant. and Rietveld /hour | 3 | | |
| | e Structure Determination /hour | 8 | | |

^a Base rates are provided on request.^b This column shows typical rates expressed in hours

Total: _____ \$

Experiment Date: _____

Operator Comments and Notes

Completed on: _____