

Powder X-ray Diffraction Facility
Room 503 Graduate Sciences Research Center
Department of Chemistry and Biochemistry
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**You must hand your sample to a person so that it can be logged in.
You may not simply leave your sample. It will not be run if it is not logged in.
You must pick up your sample when you pick up your data.**

Name: _____

Date: _____

Fund Number: _____ - _____

Phone #: _____

E-mail: _____

Research Group: _____

Sample ID: _____

Department: _____

Sample Composition: _____

Unless otherwise agreed upon, the following conditions will be used to collect data:

Standard Scan:	Two theta range:	10-70° 2 θ
	Step size:	0.04°
	Scan rate:	1°/min

Samples must be in powder form (unless otherwise agreed upon). Typically, 200 mg of sample is needed to fill the large sample holder. Smaller sample sizes can be run in smaller sample holders. The best data are obtained when enough sample is supplied to fill the large sample holder.

As part of the data collection we can:

- 1) determine the peak positions and print them
- 2) overlay a known phase onto the diffraction pattern and print
- 3) print the diffraction pattern

The charge for data collection does not include:

- 1) analyzing the X-ray diffraction data
- 2) explanations of how PXRD works