



Dear Investigator,

Thank you for your interest in collecting SAXS data at the SYBILS beamline 12.3.1. There are several things we would like you to know.

- We have developed (and are continuing to refine) a time slicing mode for collection. Each sample is collected multiple times with the same exposure length. We generally collect every .3 seconds for a total of 10 seconds resulting in 30 frames per sample (though there is some variation depending on beam optimization).
- Each sample's result is in its own directory named after the well number.
- A spreadsheet is included in your directory with comments from beamline staff based on an initial assessment of the sample. The first part is what we think is the "best" cbf.dat file followed by either "no comment" (meaning we did not see a problem with any of the frames) or a comment based on a precise time slice of when a problem seems to have occurred. For example: "cbf.dat/Rad Damage from 5th frame" means the average file is best to use and there looks to be radiation damage starting at the 5th frame (or at 1.5 seconds if exposures were taken every .5 seconds). Or, a general comment like "Low Concentration". See our "stats" page <https://bl1231.als.lbl.gov/htsaxs/statistics> for more information about common problems with SAXS data.

We are continuing to improve our systems with the aim of making data of higher quality.

Please provide us with constructive feedback.

Thank you,

The SYBILS beamline staff
Greg, Michal, Tad, Jane and Kathryn