



	Experiment title: Birkbeck/Structural Biology Centre BAG	Experiment number: LS1810
Beamline: BM14	Date of experiment: from: 23/09/2000 to: 25/09/2000	Date of report: 27/02/2000
Shifts: 6	Local contact(s): Dr. Gordon Leonard	<i>Received at ESRF:</i>
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Report:

Crystals of selenomethionine-labelled PITP (PI-inositol transfer protein) diffracted poorly and we were unable to improve on previous data measured at the ESRF. However coordinates of a homologous structure have since become available allowing structure determination by molecular replacement using data from beamlines ID13 and ID14-4 measured in 1999. The backup project was to collect selenomethionine MAD data from crystals of an inositol synthase. Despite highly anisotropic data, 3 wavelengths were successfully collected to 3.5Å. Se sites have been identified by SnB using the peak dataset. This has led to a 4.0Å resolution MAD map with a clear protein envelope. This map is not interpretable and we are currently trying to improve it by several approaches. A 1.9 Å native dataset from crystals of the same protein was also collected which suffered less from anisotropic diffraction, but this dataset was not isomorphous to the MAD dataset.