



	Experiment title: Studies of ASDH from <i>A. thaliana</i>	Experiment number LS1924
Beamline: ID14-EH3	Date of experiment: from: 09 April 01 to: 10 April 01	Date of report 11/06/01
Shifts: 1.5	Local contact(s): S. Kozielski/J. McCarthy	<i>Received at ESRF</i>
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Report:

We started to work after many problems with the beamline intensity and cryo-system. (In total we lost 1 shift). Our aim was to characterize crystals from a new protein which we could not test in the lab because they were too small, and if possible collect data.

We spent a long time trying to find suitable cryo-conditions, and get rid of ice rings on our images, only to find out the day after that there was nothing wrong with our solutions but that the cryo cooler on the beamline was probably causing the ice rings.

Then we started to test crystals and experienced a lot of intensity fluctuations. Eventually, we found a crystal that could be suitable and started a data collection. Unfortunately, the beam intensity became very weak after a few images. I tried to realign the beamline as explained in the handbook, but SPEC refused to move some of the motors.

Data collection data : Exposure time : 3x20s /0.5 degree; Wavelength : 0.934 Å

Number of images measured : 50

The lattice is monoclinic and the unit cell is 84Å, 107Å, 58Å, 90°, 94°, 90°.

Unfortunately, due to both the beam fluctuations and the crystal quality, we were not able to get good data.

I sent a letter to the responsables who replaced this data collection day.