



	Experiment title: Enzymes of ribose metabolism. Ribose-5-phosphate Isomerase from <i>E. coli</i> . BAG: <i>Uppsala (II)</i>	Experiment number: LS-2187-2a
Beamline: ID14-EH1	Date of experiment: from: 13 July 2002 to: 14 July 2002	Date of report: 13 Aug 2002
Shifts: 3	Local contact(s): Dr. Sigrid KOZIELSKI	<i>Received at ESRF:</i>
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Report:

Ribose-5-phosphate isomerase A (RPI A) is an enzyme which performs the isomerization of ribose-5-phosphate to ribulose-5-phosphate or *vice versa*. The apo structure of *E.coli* RPI A has already been solved by two independent groups, but a collaboration with one of them has given us the opportunity to perform structural studies of *E.coli* RPI A and a possibility to gain deeper understanding of the enzyme by the study of RPI/inhibitor complexes.

During this trip, we collected a dataset of RPI A co-crystallized with the inhibitor fructose-6-phosphate (F6P) to a resolution of 1.8 Å. The structure was solved by Molecular Replacement and auto-traced with the ARP/wARP package.

Unfortunately, the active sites of RPI A were only very slightly occupied by the F6P so and the data was not to any use for us.