ESRF	Experiment title: Ribose 5-phosphate B from <i>M. tuberculosis</i>	Experiment number : MX-2187
Beamline :	Date of experiment:	Date of report:
ID14EH1	14th December 2002	30 th Aug 2004
Shifts:	Local contact(s):	
1/2	Steffi Arzt	
Names and affiliations of applicants (* indicates experimentalists): T. Alwyn Jones, Uppsala University * Annette Roos, Uppsala University, annette@xray.bmc.uu.se		

Report:

Ribose-5-phosphate isomerase is an enzyme involved in the pentose phosphate pathway where it catalyses the interconversion of ribose-5-phosphate to ribulose-5-phosphate. Two non-homologous enzymes have been identified that perform this catalysis, RpiA and RpiB. Humans have the RpiA form whereas the pathogenic bacterium *M. tuberculosis* only has RpiB. Therefore this enzyme could be a good potential drug target and structural studies could lead to ideas for a new anti-tuberculii medicin.

Two data sets were collected of crystals soaked in two different heavy metals with the hope of solving the phases by isomorphous replacement. Unfortuneately one crystal was not isomorphous and the other one had not bound the metal ion. So no phases could be obtained from this data.