



Experiment Report Form

The double page inside this form is to be filled in by all users or groups of users who have had access to beam time for measurements at the ESRF.

Once completed, the report should be submitted electronically to the User Office using the **Electronic Report Submission Application**:

<http://193.49.43.2:8080/smis/servlet/UserUtils?start>

Reports supporting requests for additional beam time

Reports can now be submitted independently of new proposals – it is necessary simply to indicate the number of the report(s) supporting a new proposal on the proposal form.

The Review Committees reserve the right to reject new proposals from groups who have not reported on the use of beam time allocated previously.

Reports on experiments relating to long term projects

Proposers awarded beam time for a long term project are required to submit an interim report at the end of each year, irrespective of the number of shifts of beam time they have used.

Published papers

All users must give proper credit to ESRF staff members and proper mention to ESRF facilities which were essential for the results described in any ensuing publication. Further, they are obliged to send to the Joint ESRF/ ILL library the complete reference and the abstract of all papers appearing in print, and resulting from the use of the ESRF.

Should you wish to make more general comments on the experiment, please note them on the User Evaluation Form, and send both the Report and the Evaluation Form to the User Office.

Deadlines for submission of Experimental Reports

- 1st March for experiments carried out up until June of the previous year;
- 1st September for experiments carried out up until January of the same year.

Instructions for preparing your Report

- fill in a separate form for each project or series of measurements.
- type your report, in English.
- include the reference number of the proposal to which the report refers.
- make sure that the text, tables and figures fit into the space available.
- if your work is published or is in press, you may prefer to paste in the abstract, and add full reference details. If the abstract is in a language other than English, please include an English translation.



Experiment title:
Structure-function studies of peroxisomal multifunctional enzymes type I and II

Experiment number:
LS-1606

Beamline :	Date of experiment: from: 07.05.2000 to: 08.05.2000	Date of report: 26-02-2001
Shifts:	Local contact(s): Ferrer Jean Luc	<i>Received at ESRF:</i>

Names and affiliations of applicants (* indicates experimentalists):

Dr. Tuomo Glumoff, Department of Biochemistry, University of Oulu, Finland *

M.Sc. Antti Haapalainen, Department of Biochemistry, University of Oulu, Finland *

M.Sc. Kristian Koski, Department of Biochemistry, University of Oulu, Finland *

Report:

We measured data on a Se-met derivative of the dehydrogenase domain of peroxisomal multifunctional enzyme type II from rat.

Crystal characteristics were:

Space group P21

Cell dimensions: a=89.276, b=82.115, c=95.407, $\beta=94.188^\circ$

A MAD data collection strategy with 3 wavelengths was employed. To our disappointment, the scaling of the collected and processed data showed that the data sets are probably not complete enough. The 24-h shift was not sufficient to collect enough data despite the fact that we sacrificed resolution to 2.4 Å in order to decrease the time needed per frame, and collected only with 3 instead of 4 wavelengths.

Completeness of the scaled data is only 59.6 % to 2.4 Å.

We have not carried out further analysis on this data. We have also not prepared more crystals of this protein after that experiment due to setting priority of limited

working capacity on other proteins. However, we can make more of the Se-met protein of this dehydrogenase once we would know of a new data collection session.

