



ESRF

Experiment title:

X-RAY ABSORPTION STUDY OF THE PURPLE
MEMBRANE CATION BINDING SITES.

Experiment

number:

LS 473

Beamline:

BM29-BL18

Date of experiment:

from: 15/1 1/1996 to: 17/1 1/1996

Date of report:

26/02/1997

Shifts:

9

Local contact(s):

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Preliminary results and comments about experiment LS473

Three days of beamtime were granted to experiment LS473.

The reference BR sample with the five binding sites of high and medium affinity occupied by Mn^{2+} , has been measured. The EXAFS spectrum, is shown in the figure together with the Fourier Transform. It is in agreement with previous measurements performed on the same kind of sample and clearly states the feasibility of the experiment. Unfortunately, due to problems in the beamline alignment, the samples with La high affinity sites filling and the samples with the MN412 intermediate have not been measured. We believe that three further days should be assigned for the next beamtime allocation period to allow the completion of the experiment.

