



Experiment title:

Structural studies of *E. coli* ribokinase.

BAG: Uppsala (II)

Experiment

number:

LS-1520 b

Beamline:

ID14-3

Date of experiment:

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Date of report:

23 August 2000

Shifts:

2.1

Local contact(s):

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Report:

Ribokinase is the only known enzyme which phosphorylates ribose at O5 using ATP as the phosphate group donor. It is found in all procaryotic and eucaryotic species tested so far.

The crystals were too small to be tested on our local rotating anode x-ray source prior on going to ESRF. Around 20 frozen crystals with substrate, product and metal ions were tested. Two datasets were collected; a 2.2 Å dataset with substrates and metal ions bound and a 2.6 Å dataset with product and metal ions bound, but both were later found too disordered to be useful.