



EUROPEAN SYNCHROTRON RADIATION FACILITY



Experiment title: Block Allocation Group Italy (BAG)	Experiment number: MX 129
Beamline: ID 29	Date of experiment: from: 27.04.2003 to: 28.04.2003
Shifts:	Local contact(s): William Shepard
Date of report: <i>Received at ESRF:</i>	
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Report:

The Mycobacterium tuberculosis Cu,Zn Superoxide Dismutase (MTBSOD) is a metallo-enzyme which catalyses the dismutation of superoxide radicals to molecular oxygen and peroxide. As it plays an important role in the protection of biomolecules from harmful byproducts of oxidative stress, it is important in Mycobacterium tuberculosis's pathogenicity.

With the data collection of this experimental session we aim at studying the structure of MTBSOD.

During this experimental session we collected native datasets on MTBSOD crystals.

Table 1.: Summary of data collection statistics on (27-28.04.2003, beamline ID 29)

MTB SOD native (ID-29)

Space group	C2
Unit cell (Å)	a=69.95 b=58.34 c=51.22 β=126.832
Resolution (Å)	1.35
No. observed reflections	123164
No. unique	33850
Completeness (%)	93
Mosaicity (deg)	0.292 (XDS)
Rsym (%)	6.1