



	Experiment title: TB Carbonic anhydrase. BAG: Uppsala (Jones)	Experiment number: MX-274
Beamline: ID14-1	Date of experiment: From: 14 May 2004 to: 15 May 2004	Date of report: 30 July 2004
Shifts: 1	Local contact(s): Stephanie MONACO	
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Report:

Carbonic anhydrase (CA, EC 4.2.1.1) catalyses the reversible hydration of carbon dioxide into bicarbonate. At least three different CA families are known to exist, α -, β - and γ -CA, All CA's in the animal kingdom are of the α -class and the enzyme is a validated drug target in humans. The β -class enzymes has not been found in the animal kingdom but occurs in higher plants, algae and prokaryotes and are also potential drug targets. We presently work on the structural determination of several carbonic anhydrases from *Mycobacterium Tuberculosis*.

One dataset extending to 2.0 Å resolution was collected. The data scaled with good statistics and the structure was solved by molecular replacement methods.