



<b>Experiment title:</b> BAG-Frankfurt	<b>Experiment number:</b> MX-135	
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<b>Shifts:</b> 1.5/3	<b>Local contact(s):</b> : Dr. Gordon LEONARD	
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## Report:

### Cyclohexanedione hydratase (CDH)

CDH catalyzes the reduction of cyclohexane-1,2 diol to adipate. The thiamin and flavin dependent enzyme is present as a dimer with a molecular mass of 63 kDa per subunit. It was crystallized in the space group I(1)432 with cell axis of 210.7 Å. Native data were collected up to 2.8 Å resolution. The overall  $R_{\text{sym}}$  and completeness was 8.2% and 90%. In the highest resolution shell the  $R_{\text{sym}}$  was 29.6% and the completeness was 86%. Due to the limited quality of the data we looked for a new crystal form and were successful (see report ID14-4 measurement 12.2003)

### ATP binding domain of the maltose ABC transporter (Malk)

Malk was crystallized with  $\text{Li}_2\text{SO}_4$  as precipitant. Crystals adopts the space group  $\text{P4}_x2_12$  and cell axis of 94.6 Å and 215.4 Å. Two monomers were in the asymmetric unit. Native data were collected at a resolution of 2.9 Å with an overall  $R_{\text{sym}}$  and completeness of 6.0% and 98.3%, respectively. The corresponding quality parameter in the outest resolution shell were 44.3 % and 99.6%. Molecular replacement calculations failed, such that this project was not continued.