



Experiment title:  
**Cellobiohydrolase 58 from *Phanerochaete chrysosporium* (Pc\_Cel7D) . BAG: Uppsala (II)**

**Experiment number:**  
LS 1935

**Beamline:**  
ID14-EH4

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**Report:**

Pc\_Cel7D is the major cellobiohydrolase produced by the fungus *Phanerochaete chrysosporium*. Such enzymes are of great interest in terms of basic wood biology, as well as useful industrial tools. We have previously solved the structure of the catalytic domain of Pc\_Cel7D by molecular replacement using the *Trichoderma reesei* CBHI structure as the search model.

Presently we are working to solve the structures of complexes with different ligands. During this trip we collected one data set on this enzyme, crystallized with g3s (a thio-linked oligosaccharide) and the data have been processed (resolution 1.7 Å, space group C2, a=90.8 Å, b=48.717 Å, c=103.317 Å, beta = 103.0°, overall completeness 99%, overall R merge 6.6%). However, there was no electron density visible for the ligand in the initial electron density maps.