



	Experiment title: XyloglucanEndotransglycosylase. <i>BAG: Uppsala (II)</i>	Experiment number: LS-2187
Beamline: ID14:4	Date of experiment: from: 020504 to: 020506	Date of report: 23 Aug 2002
Shifts: 2	Local contact(s): R. Ravelli	<i>Received at ESRF:</i>
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Report:

Xyloglucan is an abundant polysaccharide in dicot cell walls where it can form crosslinks that restrains cell expansion and allows the generation of turgor pressure. The enzyme XyloglucanEndotransglycosylase, XET, is believed to play a key role in wall expansion and growth. Catalyzing both endolytic cleavage of xyloglucan *and* ligation of the newly generated end to another xyloglucan chain, it enables expansion without undermining cell structure.

A first native dataset of recombinant XET from *Populus tremula* had earlier been collected at ID13 to a resolution of 2.5Å. Four putative heavy atom derivative datasets were collected and the structure was later solved by SIRAS using a three site Au-derivative collected to a resolution of 2.1Å. These results are to be published together with a ligand-complex structure during the autumn.