



	Experiment title: FRANKFURT BAG: Structure Determination of Membrane Proteins from <i>Aquifex aeolicus</i>	Experiment number: MX-135
Beamline: ID 14 EH2	Date of experiment: from: 15 May 2003 to: 16 May 2003	Date of report: 20-DEC-2003
Shifts: 2/5	Local contact(s): Dr. Cecile JAMIN	<i>Received at ESRF:</i>
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Report:

The proteins of hyperthermophilic organisms are attractive for studies of structural and functional adaptation to high temperature because they are stable and active. These will provide more chance to solve membrane protein structures.

We have crystallized two membrane-bound proteins from *Aquifex aeolicus*, whose functions are unknown. The first unknown protein which was called Aq1862, the native dataset had been collected, but with resolution of 3-5 Å. Space group is P2₁2₁2₁, cell parameters are a=110.26, b= 126.227, c=205.345. The second unknown protein which was initially diffracting to 7 angstrom, space group is probably P222, cell parameters are a=76.829, b=152.394, c=208.308.