



 ESRF	<b>Experiment title:</b> TCR/peptide/MHC complexes	<b>Experiment number:</b> LS-1507
<b>Beamline:</b> ID14 eh3	<b>Date of experiment:</b> from: Dec. 8 1999, 19h      to: Dec. 9 1999, 6h	<b>Date of report:</b> March 8, 2000
<b>Shifts:</b> 1	<b>Local contact(s):</b> Wim Burmeister	<i>Received at ESRF:</i>
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<b>Report:</b>  Two crystals of potential TCR/pMHC complexes have been obtained in november 99 and have been tested for diffraction on ID14 eh3 beamline.  For one small crystal (0.2 x 0.08 x 0.01 mm), the data collection has been succesfull. The crystal was flash-cooled in the nitrogen gas stream, with PEG6000 as cryoprotectant. The crystal diffracts beyond 2.5 Å resolution. 180 images have been collected ( $\Delta\phi$ : 1°, $\lambda=0.93\text{\AA}$ , exposure time : 90s) with the MarCCD detector. A complete data set has been obtained (Space group $P2_12_12$ , $a=77\text{\AA}$ , $b=120\text{\AA}$ , $c=103\text{\AA}$ ) with a Rmerge of 8.4% and a redundancy of 7.2.		
The structure determination is still ongoing. The decay of diffraction was quite significant at the end of the data colection.  For the second crystal, slightly larger (0.2 x 0.15 x 0.02 mm) than the first one, the diffraction was quite poor. The resolution limit was around 7 Å. The crystal may have been damaged during the flash-freezing. No data have been collected.		