ESRE

.— ,				-	
TCR	1	peptide	/	MHC	complexes

title:

Experiment

Experiment number:

LS 1656

e :	Date of experiment: from: April 14 2000, 8h to: April 15 2000, 0h30	Date of report: Sept 1, 2000
	Local contact(s): Hassan Belrhali	Received at ESRF:

Names and affiliations of applicants (* indicates experimentalists):

J.B. REISER* IBS-LCCP, C. DARNAULT IBS-LCCP, JUAN C. FONTECILLA-CAMPS IBS-LCCP D. HOUSSET* IBS-LCCP

Report:

Several crystals of potential TCR/pMHC complexes have been obtained in March 2000 and tested for X-ray diffraction on ID14-eh1 beamline.

Small crystals (0.05 * 0.05 * 0.05 mm) were often multiple ones (presenting double diffraction spots). However, 2 data sets have been collected at 0.93 Å wavelength on a MarCCD detector on the best flashcooled crystals ($\Delta_{-} = 0.5^{\circ}$, $\Delta t = 15$ -20s). The two crystals presented the same unit cell in $P2_1$: a = 67Å, b = 81Å, c = 89Å, $_{-} = 111^{\circ}$. After data integration and reduction, the molecular replacement showed us the absence of TCR single chain in both crystals. Some new crystallization tests have been done after these experiments, in order to favour the cristallization of ternary complexes..