

**Experiment title:**

Complexes between the major grass pollen allergen phl p 5 and Fab fragments of monoclonal antibodies.

**Experiment number:**

Is-1099

**Beamline:**

14EH3

**Date of experiment:**

from: 2.12.98 to: 3.12.98

**Date of report:**

26.2.99

**Shifts:**

3

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*Received at ESRF:***01 MAR. 1999****Names and affiliations of applicants (\* indicates experimentalists):**

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**Report:**

A very large number of Phl p 5-Fab complex crystals were tested. Unfortunately it was not possible even to obtain the resolution (4 Å) previously obtained at MAXLAB, Lund. No diffraction beyond 10 Å was observed. This was despite the fact, that the complex now had been purified to a significantly higher degree using chromatofocusing techniques. However it had not been possible to get baseline level signal between the fractions. The conclusion is that it is necessary to further purify the components of the complex, before forming the complex. This is now being done.

During the period, crystals of another system, the enzyme amylosucrase, were also tested. Here it proved possible for the first time to collect diffraction data to a resolution of 1.6 Å. A number of heavy atom soaks in this crystal system were also attempted, but the crystals available at that time were too thin to obtain usable data.