



Experiment title: Crystal structure determination of three Tri-acyl-glycerol compounds from very small crystals

Experiment number:
CH-592

Beamline: ID 11	Date of experiment: from: 16-4-1999 (7.00) to: 20-4-1999 (7:00)	Date of report: 30 August 1999
Shifts: 12	Local contact(s): Åke Kvick	<i>Received at ESRF:</i>

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Report:

In this session single crystals of four tri-acyl-glycerols were measured. The structure of one of them, $C_{35}H_{66}O_6$ (CLC) is solved, but not completely refined, due to the fact that we did not obtain enough high-angle reflections. However, the found structure means a break-through in fat-research. A publication is in preparation. Hopefully, we can measure the high-angle reflections and refine the structure in the near future. Sets of images were collected for tribehene ($C_{69}H_{134}O_6$), trimyristine ($C_{45}H_{86}O_6$) and for β' -1,3-dipentadecanoyl-2-heptadecanoyl-glycerol (15-17-15, $C_{50}H_{96}O_6$). The determination of these three structures is still in progress. So far, unit cell parameters have been confirmed.