



Experiment title: High resolution data set of human neuroglobin	Experiment number: LS-2183	
Beamline: ID14-EH2	Date of experiment: from: 08-04-02 to: 09-04-02	Date of report: 01-09-2002
Shifts: 2	Local contact(s): Steffi Arzt	<i>Received at ESRF:</i>

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Report:

A native high resolution data set (1.95 Å) has been collected on crystals of human neuroglobin (see Table 1 for data collection statistics). Crystals belong to monoclinic space group $P2_1$, with unit cell: $a = 39.6$ Å, $b = 94.9$ Å, $c = 67.5$ Å, $\beta = 94.4^\circ$, 4 molecules per asymmetric unit. Initial phases were obtained by MAD experiment on Fe absorption edge (ID29, see report 02-03-2002) and a preliminary model was traced.

This high resolution data set allowed to improve the initial electron density map and trace all the 4 human neuroglobin molecules in the asymmetric unit.

The human neuroglobin structure is under refinement.

Table 1. Data collection statistic of human neuroglobin

Resolution (Å)	40-1.95
R_{sym} (%)	5.5
Completeness (%)	98
Mosaicity (°)	0.7