

TC165 □ Diffraction test of Membrane protein crystals

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Mitochondrial nucleotide transporter □ (second crystal form):

90° have been collected with one single crystal plate (120x50 □m) after several annealing steps. Best images exhibited diffraction spots until 2.7 Å resolution however they were very weak. The crystal has been translated several times along the rotation axis because of the rapid resolution decrease (3.5-4Å). Data quality is however variable according to the crystal orientation.

E.coli Melibiose Permease (MelB): The crystals we have tested, grew from robotic crystallization trials. For one of these conditions, we obtained diffraction until 15-20Å resolution for the first time. We collected 10° on this crystal to determine a preliminary unit cell. The crystals could belong to a primitive monoclinic space group with two molecules per asymmetric unit.

Human Leukotrien receptor (BLT1): the crystals (thin needles) we have tested, exhibit a small unit cell suitable with a peptide size. We suppose that we crystallized a degradation product of the protein.

DsbB □ Salt crystals

DsbA □(soluble enzyme): we have collected data with two crystals (50 □m) until 2.6Å resolution using different orientations. The diffraction limit is slightly better than on ID14-1 however the scaling step shows some possible problems.

