

Experiment 30-01-788

Xanthomonas campestris is a gram- bacterium which transports sucrose across its outer membrane using a TonB dependant receptor.

We collected data using one crystal of the sucrose TonB dependant receptor. The crystal diffracted to 2.5 Å resolution. The space group is P1 with cell parameters: a= 57.34, b= 82.31, c= 86.66 Å, α = 63.73, β = 89.48, γ = 86.32°. 190 frames have been collected. The completeness is 93,5 % and the Rsym is 17.5 %.

Molecular replacement provided phases but the electron density map is poor quality and the rebuilding cannot be performed. Heavy atom derivatives are necessary to solve the phase problem.

Data have also been collected using a twinned crystal of a TonB dependant receptor from the outer membrane of *Pseudomonas fluorescens*, but to a low resolution. The space group is I4.

At least no data has been collected on the empty FptA from *P. aeruginosa* due to a poor diffraction of crystals of this membrane receptor.