

1) Native data of *Alteromonas haloplanctis* (psychrophilic) α -amylase, AHA

Data were collected at 4°C on 3 crystals of native AHA. Due to decay of the crystals no complete data set was obtained. Statistics for the merged data are given in the table below.

2) Native data of *Pseudomonas TACH 18* alkaline protease

A complete set of data were collected at 4°C on 1 crystal. Due to twinning of the crystal we have not been able to use these data.

3) Mutant K300Q of *Alteromonas haloplanctis* (psychrophilic) α -amylase in complex with acarbose. As the beamline was cut only 50° were collected which was uncomplete for these orthorhombic C222₁ data.

Diffraction data and refinement

	native AHA	Alk. protease
Space group	C222 ₁	R3
Cell dimensions, Å	a=70.89 b=137.71 c=114.40	a=b=107.48 c=37.61 $\alpha=\beta=90^\circ$, $\gamma=120^\circ$ (hexagonal setting)
Measurements, <i>n</i>	46496	
Unique reflections	18880	
Resolution, Å	2.17	
Completeness, %	63.4	
Compl. outermost shell, %	49.3	
R _{merge} , %	8.0	
I/ σ (I) > 2, %	93.2	
I/ σ (I) > 2 outermost shell, %	83.9	
R _{factor} , %	/	
R _{free} , %	/	
rms deviation from ideal bond length, Å	/	
rms deviation from ideal bond angle, °	/	
Amino acid residues, <i>n</i>	448	
Calcium ions	1	
Chloride ions	1	