

Supplementary material:

Table 1: Enzyme Kinetics of α - amylase from *S.aureus*

Source of α - amylase	Enzyme activity mg/ml/min	Specific activity (mg/ml)/mg/min	K_M mg/ml
<i>S.aureus</i> ATCC 12600 extracellular fraction	0.0193±0.0015	0.032±0.0036	11.57±0.409
Pure recombinant α - amylase from PLAM -1	0.052±0.0036	0.0208±0.033	10.633±0.737

*Values are the mean± SD from three determinations

Table 2: Enzyme Kinetics comparison of α - amylase from *S.aureus* with other Bacterial α - amylases

Organism	K_m	V_{max}	K_{cat}	Reference
<i>Bacillus subtilis</i>	2.68 (mg/ml)	1.773(U/ml)	0.601 mg/ml	[8]
<i>Streptococcus bovis</i>	0.88(mg/ml)	2.650 (U/mg)	2.510 mg/ml	[22]
<i>Staphylococcus aureus</i>	11.57±0.409 (mg/ml)	0.032±0.0036(mg/ml)/mg/min	1.6517±0.055 mg/ml	In the present study

*Values are the mean± SD from three determinations