

Supplementary material

Properties	<i>E. coli</i> GUS	<i>Staphylococcus sp.</i> GUS
Number of amino acids	603	602
Molecular weight (Dalton)	68447.0	68701.3
Theoretical pI	5.24	5.07
Total number of negatively charged residues (Asp + Glu)	80	90
Total number of positively charged residues (Arg + Lys)	56	62
Molecular formula	C ₃₀₆₈ H ₄₆₄₆ N ₈₃₄ O ₉₀₈ S ₂₂	C ₃₁₁₈ H ₄₇₂₀ N ₈₁₂ O ₉₂₁ S ₁₂
Total number of atoms	9478	9583
Computed instability index	26.68	26.54
Aliphatic index	77.74	80.53

Table 1: Predicted physiochemical properties of β -glucuronidases.

Organism	Alpha helix (%)	Beta strand (%)	Random coil (%)
<i>Escherichia coli</i>	21.72	31.34	46.93
<i>Staphylococcus sp.</i>	22.26	28.24	49.50

Table 2: The composition of secondary structural elements in β -glucuronidases from *E. coli* and *Staphylococcus* is given.