

Table No.	List of Tables	Page No.
1	$\Delta(\Delta G)$ values for tyrosine \rightarrow phenylalanine and threonine \rightarrow valine mutants.	20
2	List of peptide fragments obtained after trypsinization of SSA.	81
3	Purification summary table of Calreticulin (CRT).	84
4	List of peptide fragments obtained after trypsinization of CRT.	84
5	List of peptide fragments obtained after trypsinization of H2AX.	87
6	Averaged thermodynamic parameters associated with urea-induced denaturation of SSA monitored by change in $[\theta]_{222}$, $\Delta\epsilon_{287}$ and F_{347} at pH 7.4 and 25 °C.	95
7	Percentage of α -helix in the native State (N), intermediate State (X) and denatured State (D) of SSA at pH 7.4 and 25 °C.	98
8	Comparison of the hydrodynamic radii of SSA at different urea concentrations measured by dynamic light scattering at pH 7.4 and 25 °C.	100
9	Thermodynamic parameters associated with the urea-induced unfolding of SSA at different sorbitol concentrations.	101
10	Thermodynamic parameters associated with the urea-induced unfolding of SSA monitored by F_{347} measurements in the absence and presence of sorbitol.	103
11	Thermodynamic parameters associated with the urea-induced unfolding of SSA monitored by $[\theta]_{222}$ measurements in the absence and presence of different myo-inositol concentrations.	104
12	Thermodynamic parameters associated with the urea-induced unfolding of SSA monitored by $[\theta]_{222}$ measurements at different glycine-betaine concentrations.	105
13	Thermodynamic parameters associated with the urea-induced unfolding of SSA monitored by F_{347} measurements in the absence and presence of 0.2 M myo-inositol and 1.0 M glycine betaine.	106
14	Thermodynamic parameters associated with GdmCl-induced denaturation of SSA monitored by change in $[\theta]_{222}$ at pH 7.4 and 25 °C.	113
15	Percentage of α -helix in the native State (N), intermediate State (X) and denatured State (D) of SSA at pH 7.4 and 25 °C.	116
16	Comparison of the hydrodynamic radii of SSA at different GdmCl concentrations measured by dynamic light scattering at pH 7.4 and 25 °C.	118

17	Thermodynamic parameters associated with the GdmCl-induced unfolding of SSA monitored by $[\theta]_{222}$ measurements in the absence and presence of different sorbitol concentrations.	120
18	Thermodynamic parameters associated with the GdmCl-induced unfolding of SSA monitored by $[\theta]_{222}$ measurements in the absence and presence of different myo-inositol concentrations.	120
19	Thermodynamic parameters associated with the GdmCl-induced unfolding of SSA monitored by $[\theta]_{222}$ measurements in the absence and presence of different glycine-betaine concentrations.	120
20	Thermodynamic parameters associated with the GdmCl induced unfolding of SSA monitored by F_{347} measurements in the absence and presence of different kidney osmolyte concentrations.	121
21	Thermodynamic parameters associated with GdmCl-induced denaturation of SSA at different urea concentrations (0.4 M – 1.6 M urea) monitored by change in $[\theta]_{222}$ at pH 7.4 and 25 °C.	128
22	Thermodynamic parameters associated with the GdmCl-induced unfolding of SSA in the presence of different [urea] + [glycine betaine] mixtures.	130
23	Thermodynamic parameters associated with the GdmCl-induced unfolding of SSA in the presence of different [urea] + [Myo-inositol] mixtures.	132
24	Thermodynamic parameters associated with the GdmCl-induced unfolding of SSA in the presence of different mixtures of [urea] + [sorbitol].	134
25	C_m values of CRT-DNA complex.	136
26	C_m values of CRT-DNA complex in the presence of different sorbitol concentrations at pH 7.4 and 25 °C.	139
27	C_m values of CRT-DNA complex in the presence of different myo-inositol concentrations at pH 7.4 and 25 °C.	141
28	C_m values of CRT-DNA complex in the presence of different glycine betaine concentrations at pH 7.4 and 25 °C.	143
29	m -values (dependence of ΔG_D^0 on concentrations of different predicted ratios, [urea]:[co-solute]) for SSA at pH 7.4 and 25 °C.	169