

Electronic supplementary information for

A study of conformational changes of β -lactoglobulin in the vicinity of critical point of binary mixed solvents

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Table 1S. Coexistence curves data from the temperature dependence of density measurements for IBW with different concentrations [$C = 0.1$ mg/mL, 0.25 mg/mL, 0.5 mg/mL, 1.0 mg/mL and 1.5 mg/mL] of β -LG as a function temperature.

$T \pm 0.002$ °C	$\rho_l \pm 0.00005$ g.cm ⁻³	$\rho_w \pm 0.00005$ g.cm ⁻³
$T_c = 26.923$, $C = 0$ mg/mL of β -LG in IBW		
22.171	0.98716	1.00195
22.836	0.98740	1.00138
23.319	0.98762	1.00121
23.923	0.98786	1.00088
24.564	0.98811	1.00055
25.089	0.98857	1.00005
25.526	0.98909	0.99978
26.016	0.98986	0.99896
26.314	0.99049	0.99853
26.502	0.99109	0.99806
26.624	0.99138	0.99788
26.732	0.99188	0.99745

26.824	0.99248	0.99671
26.902	0.99316	0.99585
26.912	0.99327	0.99566
26.914	0.99335	0.99554
26.916	0.99347	0.99545
26.917	0.99355	0.99531
26.918	0.99359	0.99526
26.919	0.99367	0.99511

$T_c = 26.614$	$C = 0.1 \text{ mg/mL of } \beta\text{-LG in IBW}$	
22.016	0.98743	1.00147
22.497	0.98764	1.00126
22.820	0.98768	1.00119
23.358	0.98791	1.00085
23.753	0.98813	1.00052
24.440	0.98854	1.00000
24.973	0.98894	0.99975
25.665	0.98987	0.99899
25.961	0.99047	0.99863
26.136	0.99105	0.99809
26.325	0.99135	0.99786
26.425	0.99185	0.99742
26.519	0.99250	0.99671
26.552	0.99316	0.99583
26.572	0.99325	0.99564
26.597	0.99331	0.99555
26.605	0.99343	0.99542
26.598	0.99356	0.99529
26.605	0.99361	0.99524
26.606	0.99369	0.99509

$T_c = 26.059$ $C = 0.25$ mg/mL of β -LG in IBW

21.975	0.98780	1.00110
22.285	0.98783	1.00106
22.611	0.98786	1.00105
22.881	0.98796	1.00088
23.254	0.98813	1.00065
23.656	0.98831	1.00027
23.941	0.98842	0.99997
24.287	0.98880	0.99948
24.619	0.98918	0.99890
24.903	0.98967	0.99845
25.163	0.99015	0.99804
25.429	0.99060	0.99760
25.568	0.99107	0.99712
25.777	0.99164	0.99659
25.901	0.99214	0.99622
25.981	0.99267	0.99595
26.013	0.99316	0.99578
26.021	0.99357	0.99529
26.038	0.99362	0.99524
26.032	0.99371	0.99509

$T_c = 25.702$ $C = 0.5$ mg/mL of β -LG in IBW

21.992	0.98812	1.00077
22.260	0.98815	1.00081
22.394	0.98819	1.00079
22.568	0.98819	1.00085
22.768	0.98831	1.00061
22.988	0.98836	1.00040
23.389	0.98861	1.00015
23.669	0.98885	0.99971

23.969	0.98909	0.99948
24.216	0.98944	0.99917
24.569	0.98987	0.99862
24.814	0.99014	0.99827
24.989	0.99066	0.99792
25.127	0.99090	0.99767
25.268	0.99127	0.99747
25.385	0.99170	0.99703
25.558	0.99247	0.99685
25.615	0.99295	0.99632
25.673	0.99334	0.99569
25.687	0.99369	0.99518

$T_c = 25.112$ $C = 1.0$ mg/mL of β -LG in IBW

22.012	0.98845	1.00032
22.184	0.98848	1.00024
22.508	0.98860	1.00022
22.708	0.98869	1.00020
22.916	0.98874	1.00001
23.217	0.98894	0.99996
23.432	0.98907	0.99961
23.633	0.98927	0.99936
23.874	0.98950	0.99909
24.093	0.98962	0.99869
24.289	0.98997	0.99841
24.445	0.99023	0.99807
24.596	0.99043	0.99786
24.730	0.99076	0.99740
24.868	0.99117	0.99698
24.940	0.99160	0.99661
25.037	0.99205	0.99611

25.078	0.99268	0.99561
25.093	0.99316	0.99524
25.097	0.99369	0.99523

$T_c = 24.481$ $C = 1.5 \text{ mg/mL of } \beta\text{-LG in IBW}$

22.044	0.98891	0.99981
22.293	0.98894	0.99983
22.547	0.98892	0.99976
22.785	0.98902	0.99975
23.054	0.98914	0.99961
23.275	0.98928	0.99941
23.472	0.98953	0.99924
23.631	0.98963	0.99899
23.813	0.98982	0.99877
23.982	0.99009	0.99846
24.085	0.99034	0.99818
24.187	0.99051	0.99793
24.309	0.99098	0.99763
24.351	0.99141	0.99731
24.375	0.99173	0.99684
24.419	0.99188	0.99652
24.431	0.99219	0.99606
24.453	0.99272	0.99580
24.466	0.99329	0.99543
24.472	0.99355	0.99509

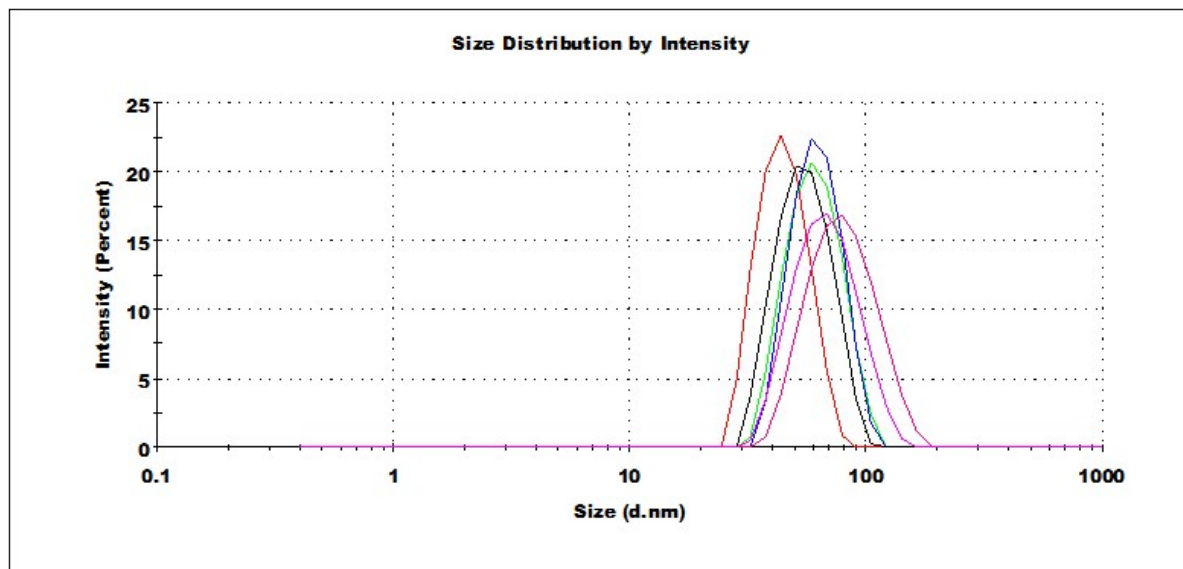


Fig. 1 S. Scattering vs. size distribution graph at their respective T_c values for β -LG, 0.0 (black), 0.1 (red), 0.25 (green), 0.5 (blue), 1.0 (cyan) and 1.5 mg/mL (pink) in IBW mixture.