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Gallic acid influence on bovine serum albumin thermal stability

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New Journal of Chemistry

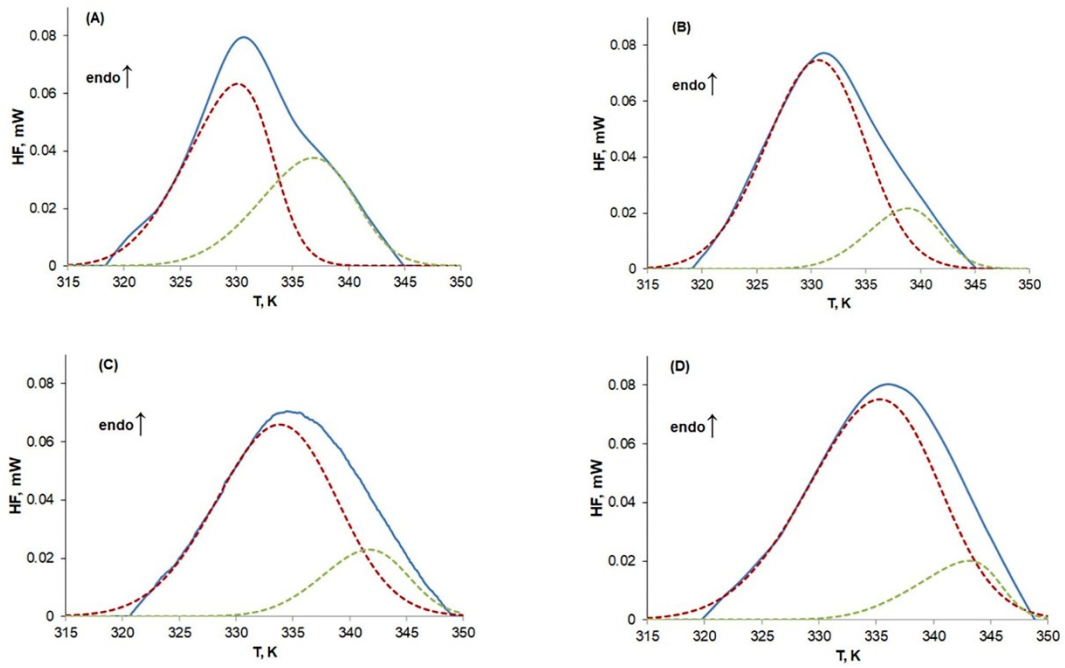

Fig. S1 PeakFit decomposition of DSC thermogram for (A) BSA, (B) GA:BSA 1:1 molar ratio, (C) GA:BSA 10:1 molar ratio, (D) GA:BSA 25:1 molar ratio. The raw data is represented by solid line, and PeakFit components by dashed lines.

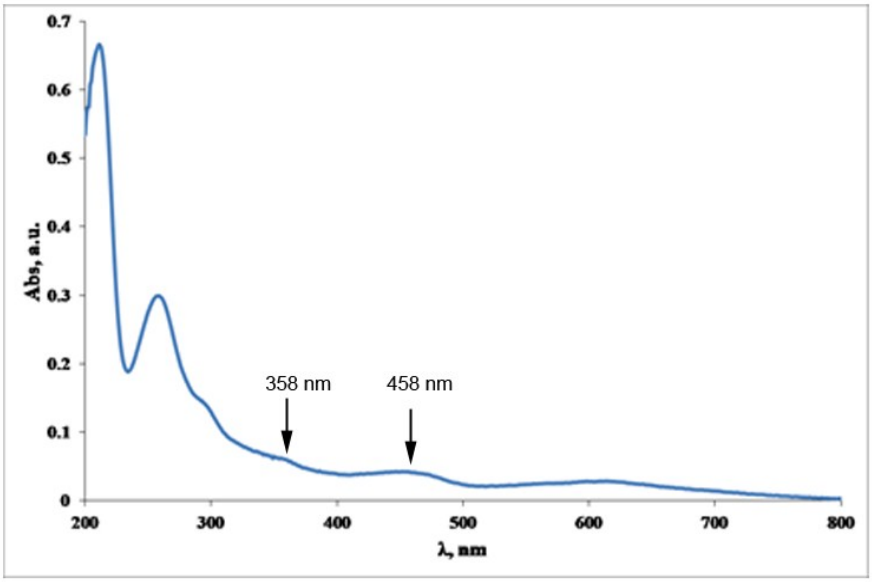

Fig. S2 UV-Vis absorption spectrum of gallic acid (5×10^{-5} M) in phosphate buffer 0.1 M (pH 7.4).

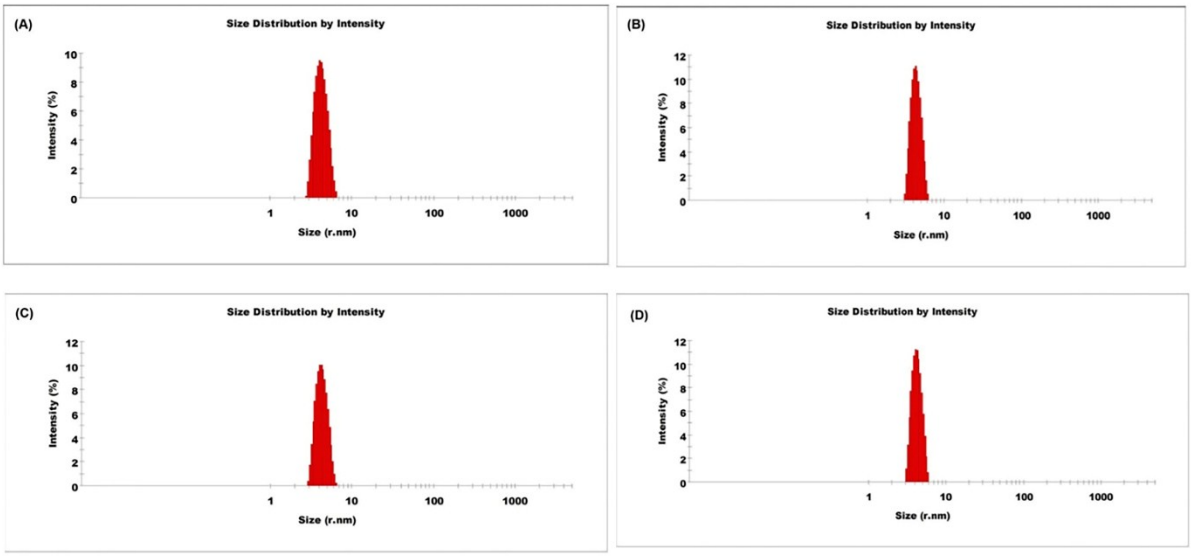

Fig. S3 Hydrodynamic radii pattern of (A) BSA (B) GA:BSA 1:1, (C) GA:BSA 10:1, (D) GA:BSA 25:1 molar ratio at 298 K.

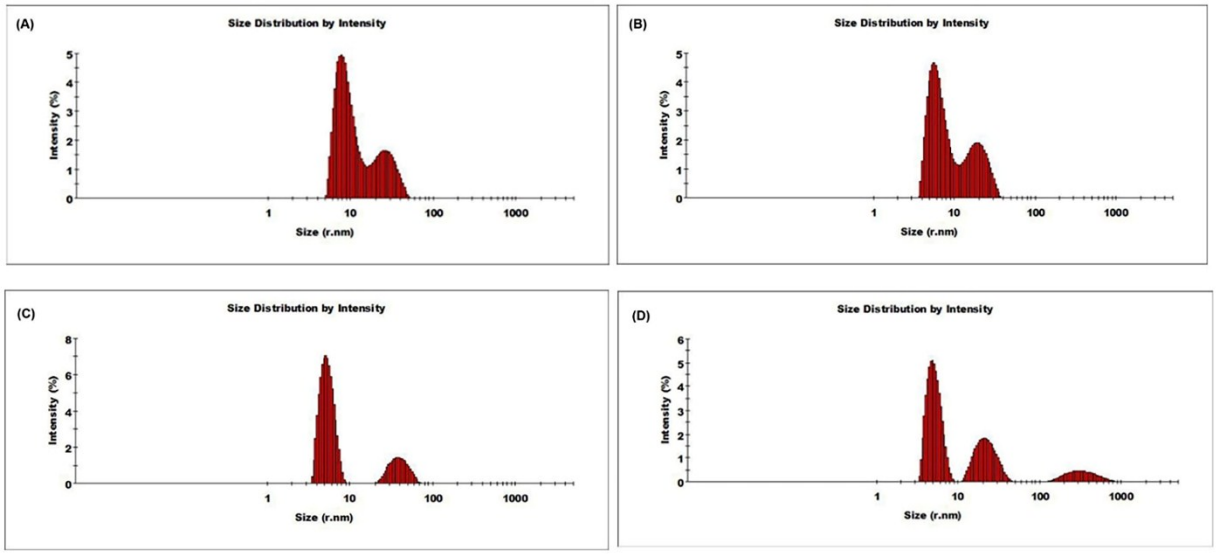

Fig. S4 Hydrodynamic radii pattern of (A) BSA (B) GA:BSA 1:1, (C) GA:BSA 10:1, (D) GA:BSA 25:1 molar ratio after 5 days incubation at 338 K.

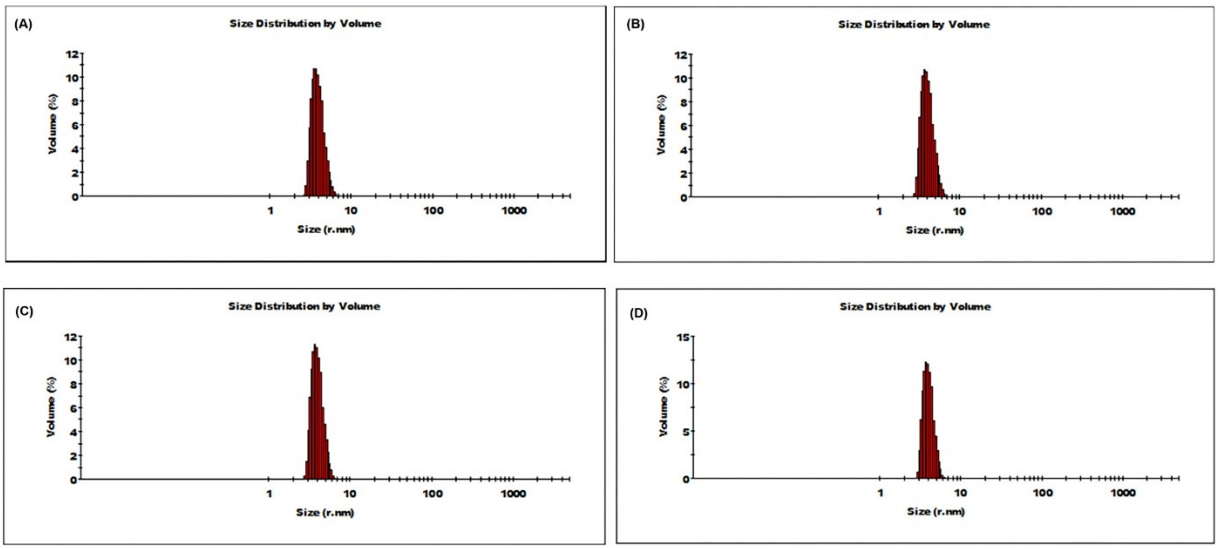

Fig. S5 Volume size distribution of (A) BSA (B) GA:BSA 1:1, (C) GA:BSA 10:1, (D) GA:BSA 25:1 molar ratio at 298 K.

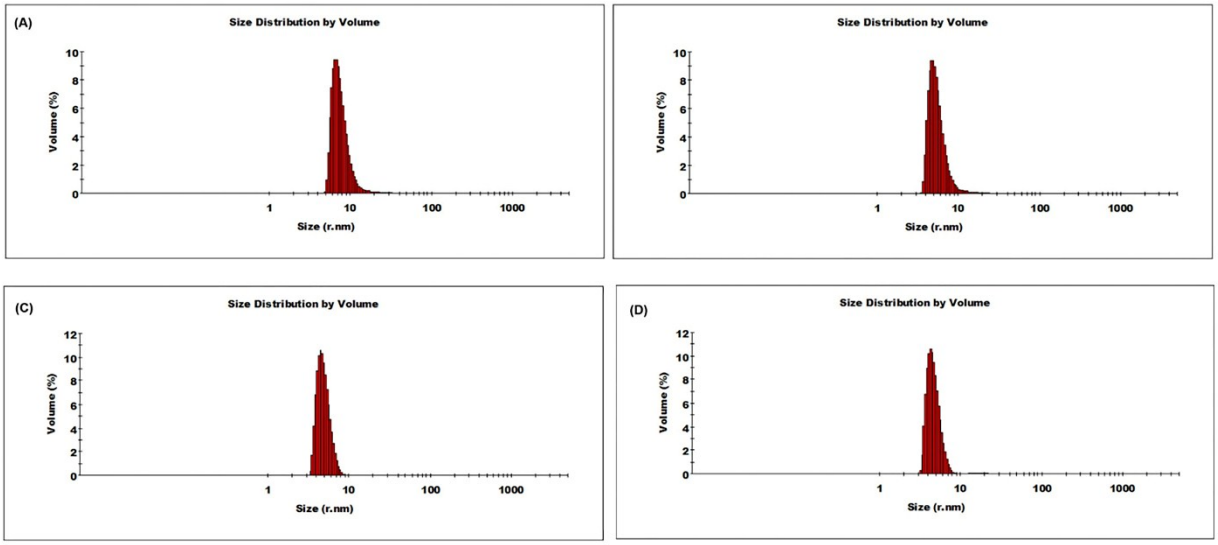

Fig. S6 Volume size distribution of (A) BSA (B) GA:BSA 1:1, (C) GA:BSA 10:1, (D) GA:BSA 25:1 molar ratio after 5 days incubation at 338 K.

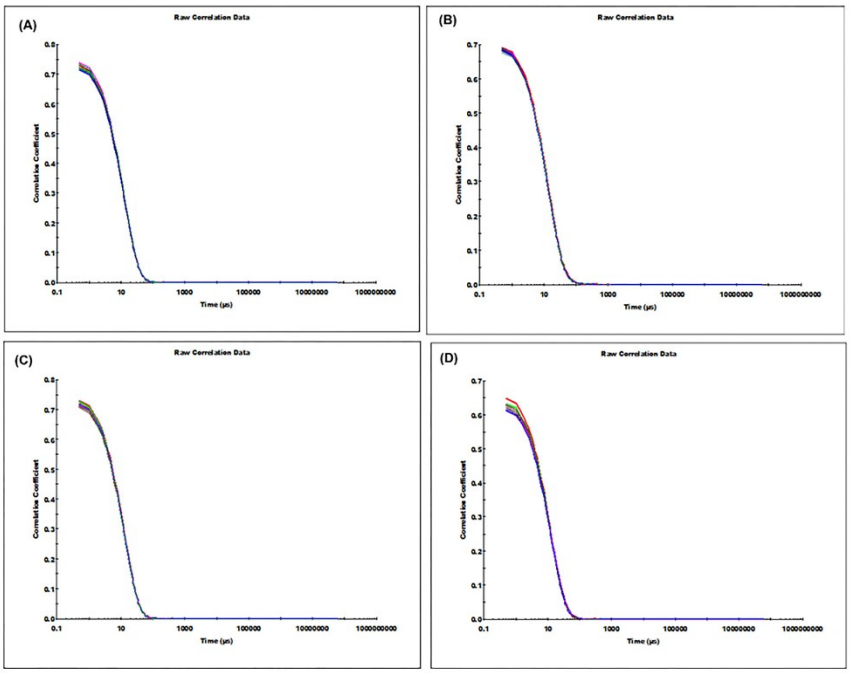

Fig. S7 DLS correlation curves of (A) BSA (B) GA:BSA 1:1, (C) GA:BSA 10:1, (D) GA:BSA 25:1 molar ratio at 298 K.

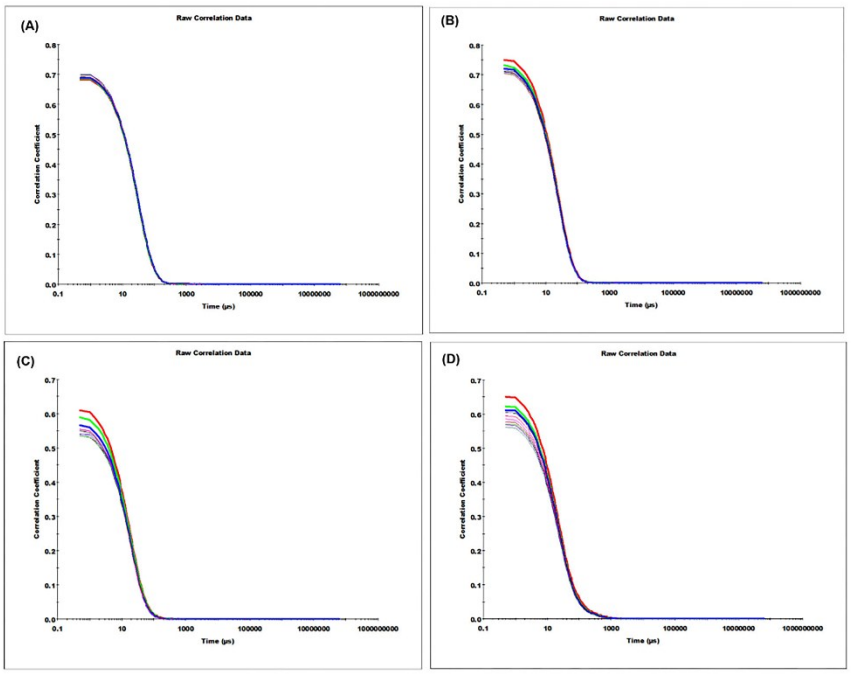

Fig. S8 DLS correlation curves of (A) BSA (B) GA:BSA 1:1, (C) GA:BSA 10:1, (D) GA:BSA 25:1 molar ratio after 5 days incubation at 338 K.

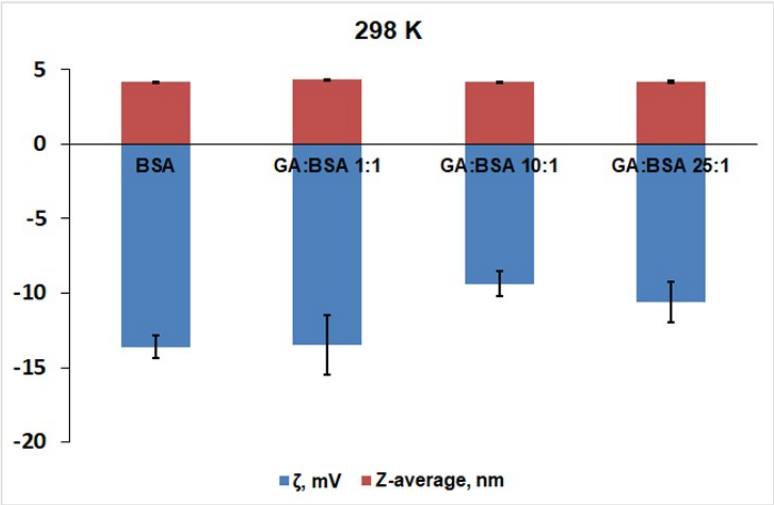

Fig. S9 Zeta potential and Z-average for BSA–GA system at 298 K. Standard deviations are presented as error bars.

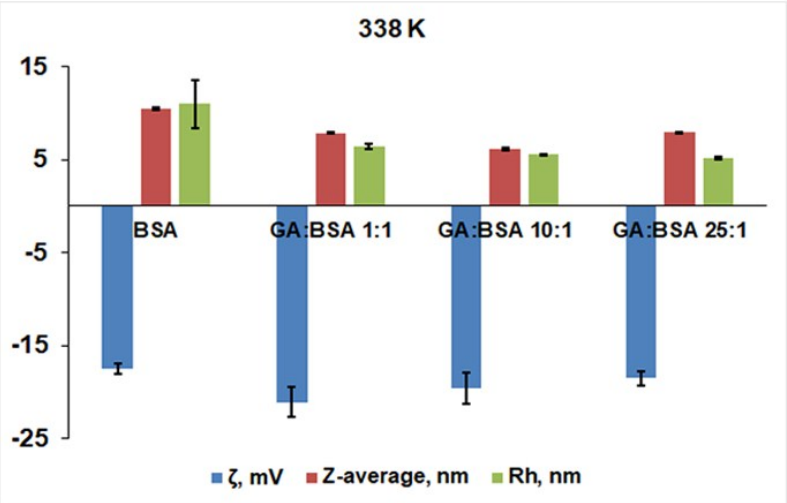

Fig. S10 Zeta potential and Z-average for BSA–GA system at 388 K. Standard deviations are presented as error bars.