Supplementary Information (SI) for Physical Chemistry Chemical Physics. This journal is © the Owner Societies 2025

## Interaction of Solid Lipid Nanoparticles with Protein: A Mechanistic Calorimetric and Spectroscopic Approach

Jyoti Rathee, Nand Kishore\*

Department of Chemistry, Indian Institute of Technology Bombay, Powai, Mumbai 400076, India

## \*Corresponding author:

Prof. Nand Kishore, Department of Chemistry, Indian Institute of Technology Bombay, Powai, Mumbai 400 076, India

Email: nandk@chem.iitb.ac.in

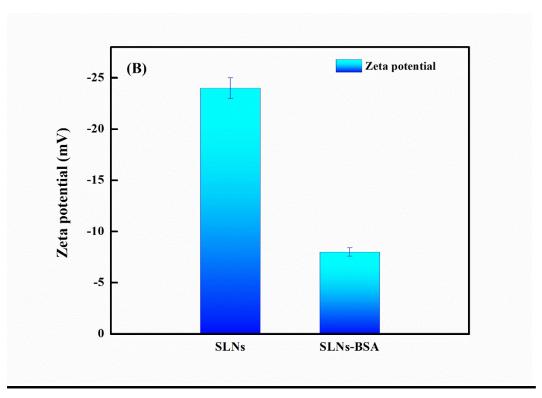


Figure S1: Zeta potential of the (A) SLNs and (B) SLNs-BSA

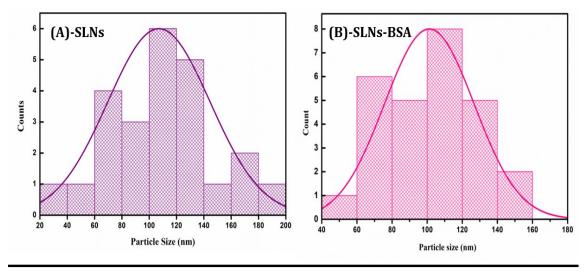


Figure S2: Histogram of SLNs and SLNs-BSA TEM images

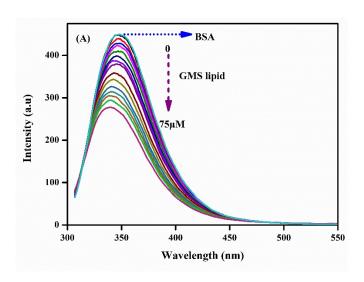


Figure S3: Fluorescence emission spectra of bovine serum albumin (BSA) with increasing (A) concentration of GMS lipid and at 298 K

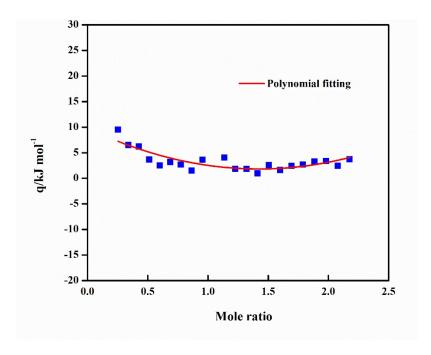


Figure S4: Polynomial fitting (second degree) on ITC profile at 298.15 K