

Supplementary Materials: Optimization and Formulation of Nanostructured and Self-Assembled Caseinate Micelles for Enhanced Cytotoxic Effects of Paclitaxel on Breast Cancer Cells

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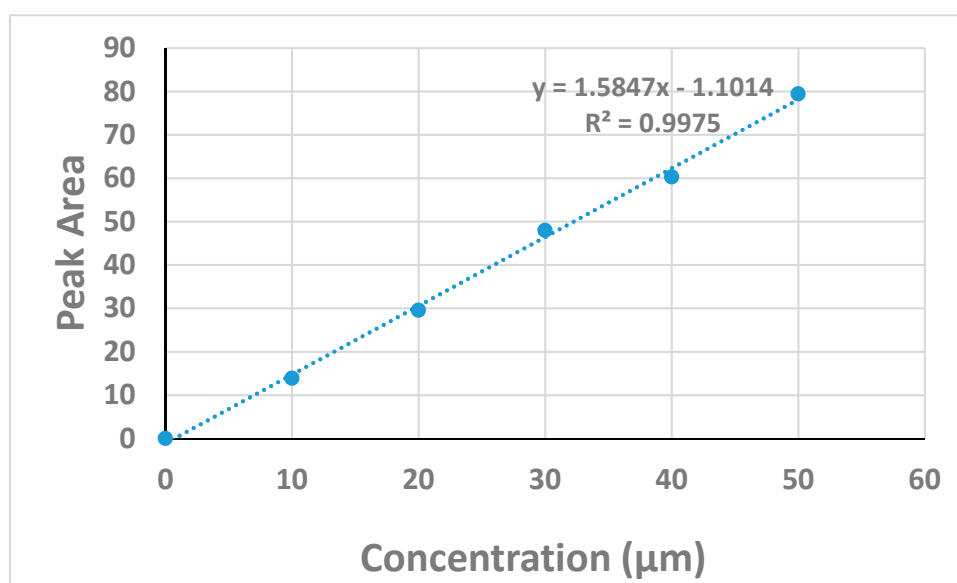


Figure S1. Standard Calibration Curve of PTX following HPLC analysis for free PTX concentration (0 µM–50 µM) of using an Agilent HPLC system with L.C. software coupled to a DAD detector and equipped with Column C18 (4.6 × 150 mm, 5 µm) maintained at 30 °C. Acetonitrile/water (55:45) was used as a mobile phase with a flow rate of 1.5 mL/min and an injection volume of 4 µL was used throughout. Detection was at 227 nm.

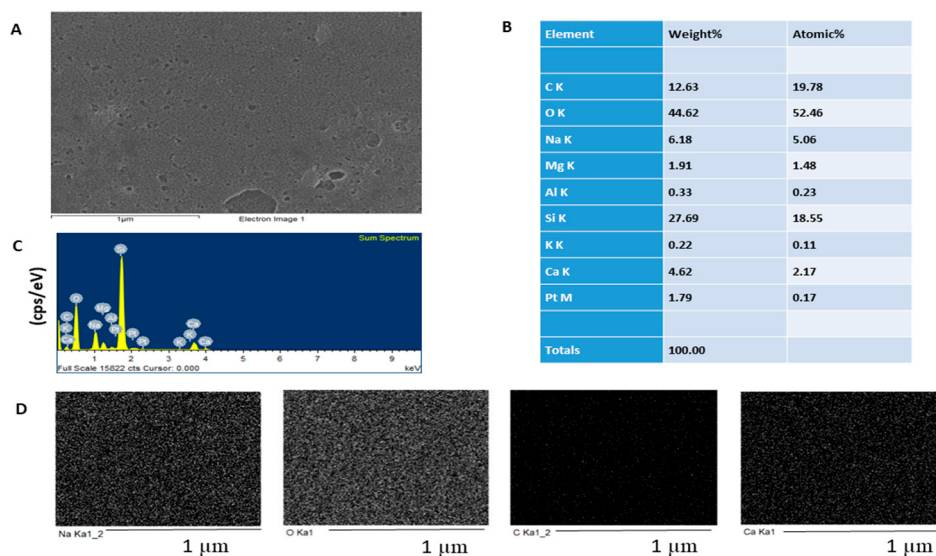


Figure S2. EDX analysis (a) SEM image of Blank NaCNs (1 mg/mL) (b) sample elemental distribution in tabular form (c) sample elemental distribution where keV is the accelerating voltage range used for EDX analysis, and cps/eV is counts per sec per electron-volt. (d) SEM images showing the uniform distribution of C, O, Na and Ca elements in the sample at a scale bar of 1 µm.

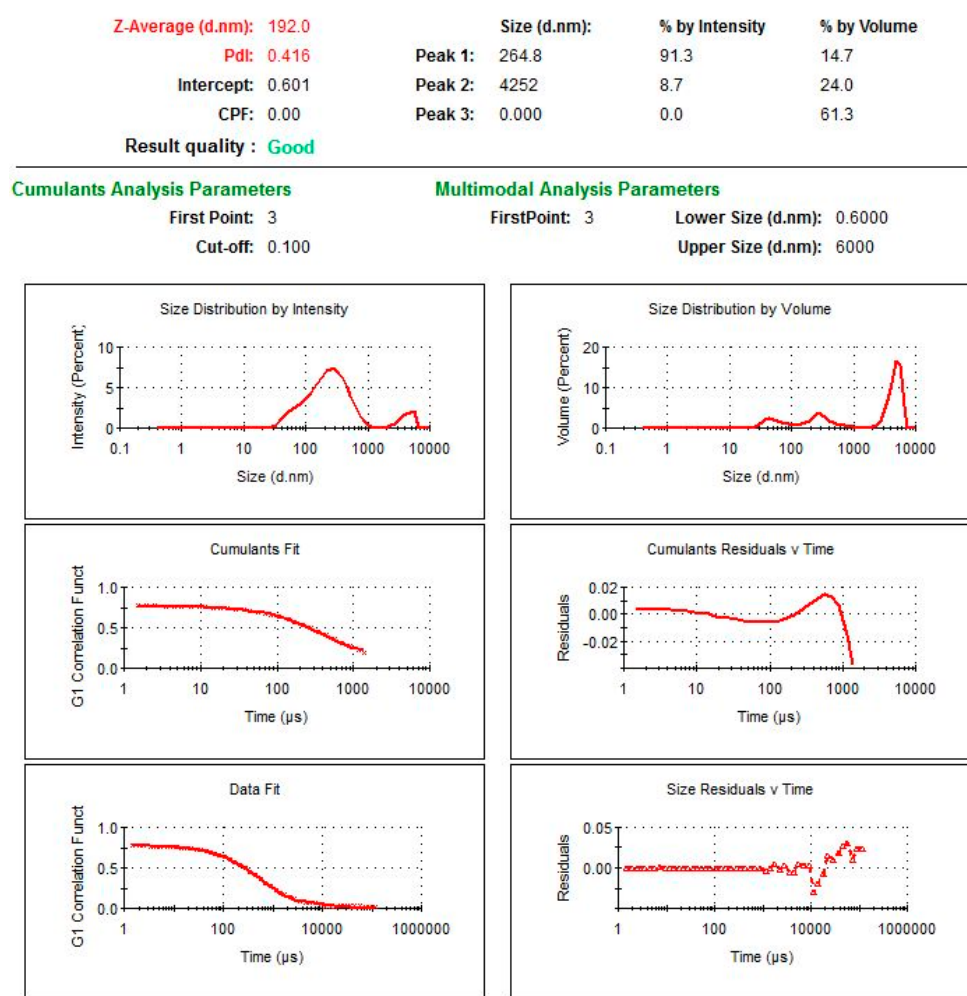


Figure S3. Graphical representation of Cumulants Analysis and the Multimodal Analysis Parameters produced via a DLS technique for determination of particle size distribution of PTX-NaCNs.