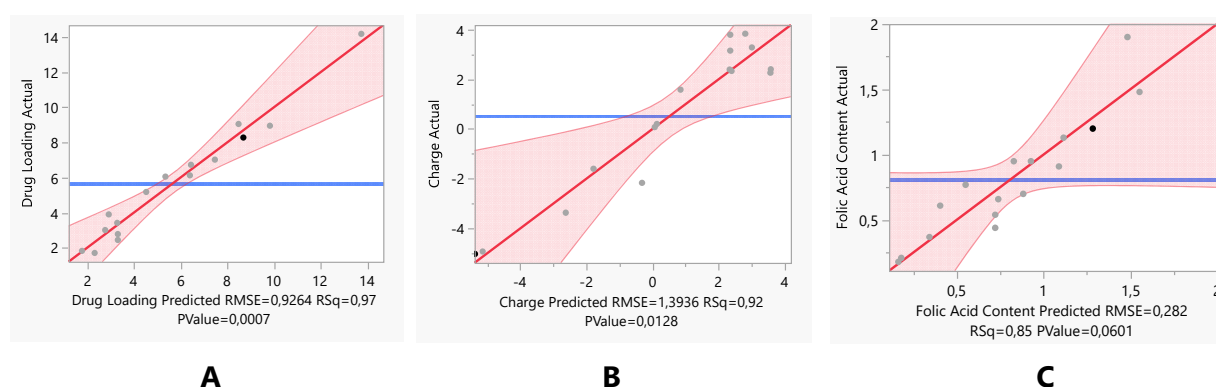
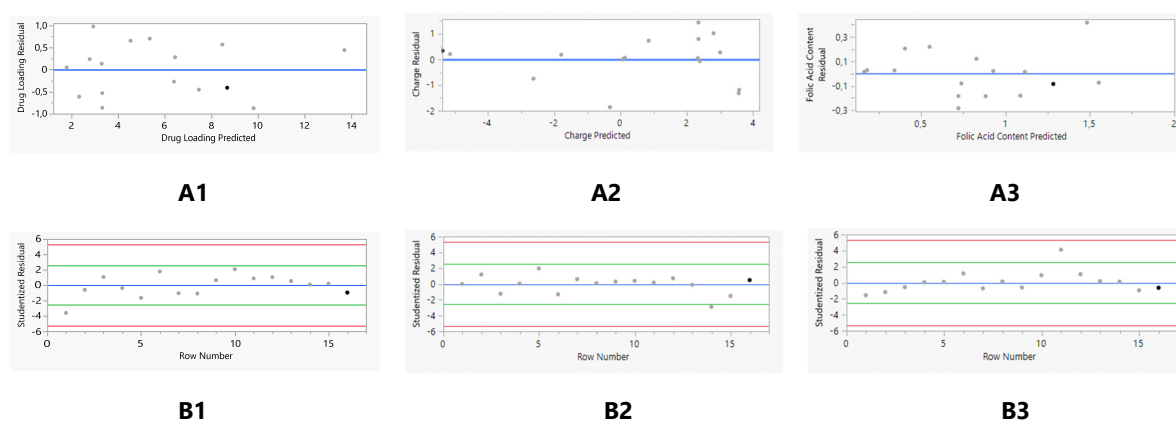


Supplementary Material

# Design of Chitosan-Coated, Quercetin-Loaded PLGA Nanoparticles for Enhanced PSMA-Specific Activity on LnCap Prostate Cancer Cells



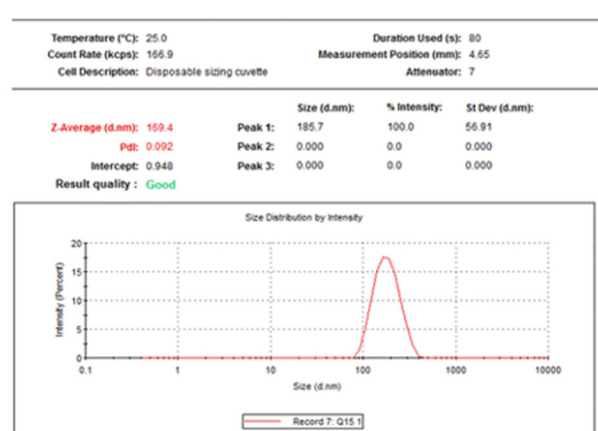
**Figure S1.** Actual vs Predicted plots of quercetin loading (A), charge (B) and folic acid content (C) – from JMP V17



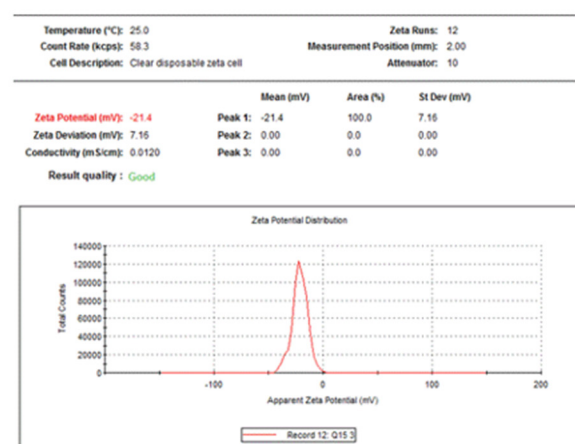
**Figure S2.** Residual Predicted plots (A) and Studentized Residuals (B) of quercetin loading (1), charge (2) and folic acid content (3) - from JMP V17

Source	Logworth		PValue
Quercetin(10,30)	3,937		0,00012
Folic Acid(15,45)	2,983		0,00104
Chitosan(10,60)	2,470		0,00338
Quercetin*Quercetin	2,387		0,00410
Quercetin*Chitosan	1,536		0,02912
Chitosan*Chitosan	1,313		0,04861
Folic Acid*Folic Acid	1,251		0,05614
Chitosan*Folic Acid	0,601		0,25083
Quercetin*Folic Acid	0,243		0,57098

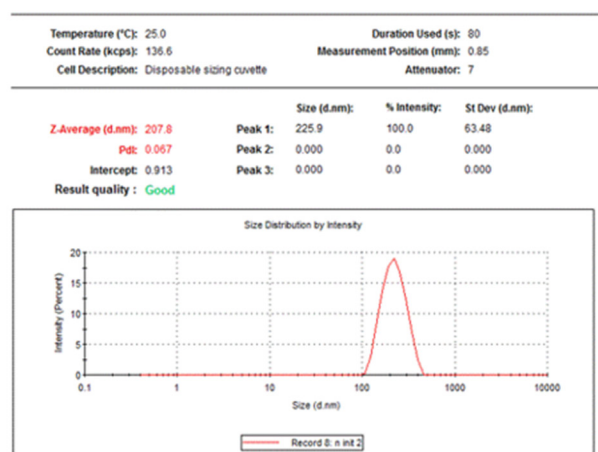
**Figure S3.** Main effects data obtained using a central composite design – from JMP V17



**A1**



**A2**

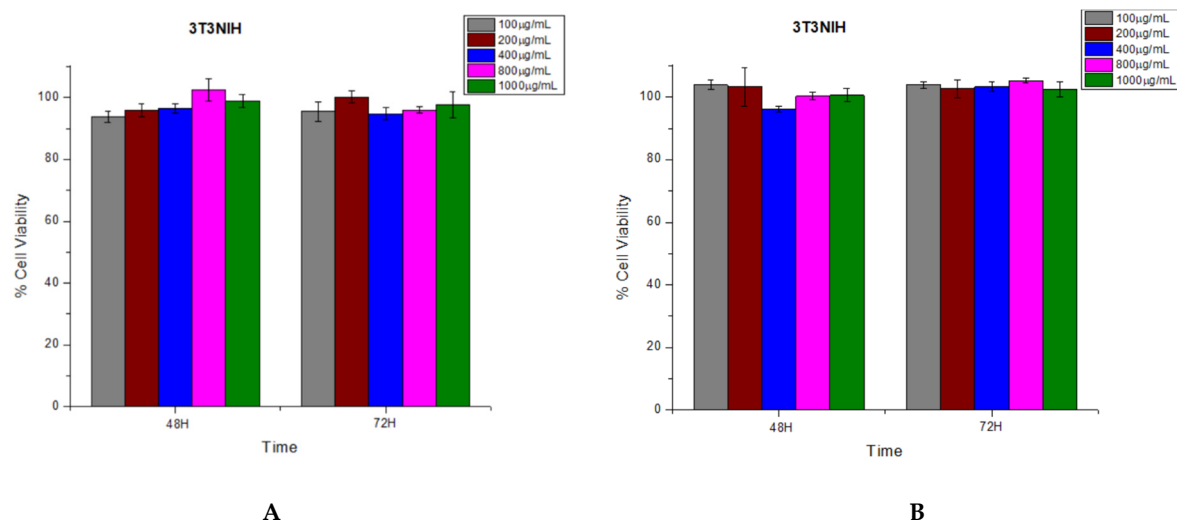


**B1**



**B2**

**Figure S4.** 1-2: Representative Graphs of Size and Potential of **A-** un-coated nanoparticles and **B-** coated nanoparticles.



**Figure S5.** Cell viability of 3T3-NIH cells after being treated with unloaded unloaded (A) and coated (B) nanoparticles for 48 and 72 hours