Supplementary Material

Resveratrol Loaded Chitosan-Pectin Core-Shell Nanoparticles as Novel Drug Delivery Vehicle for Sustained Release and Improved Antioxidant Activities

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Keywords: resveratrol; core-shell nanoparticles; drug delivery, bioavailability, antioxidant activity.

4. Results and Discussions

Characterization of Resveratrol loaded Chitosan–Pectin nanoparticles

FESEM / EDX (Field Emission Scanning Electron Microscopy)

Figure ES1: FESEM image of RCP1 showing spherical morphology of Chitosan -Pectin core shell nanoparticles.
FETEM/SAED (Field Emission Transmission Electron Microscopy/ Selected Area Electron Diffraction)

Figure ES2: Lattice fringes seen in the HRTEM images of RCP3 at 2 nm and 5 nm scales

Figure ES3: Lattice fringes seen in the HRTEM image of RCP2 at 5 nm scale
Table ES1

Anova: Two-Factor with Replication

| SUMMARY     | 72  | 77  | 86  | Total |
|-------------|-----|-----|-----|-------|
| Count       | 4   | 4   | 4   | 12    |
| Sum         | 299.16 | 326.67 | 350.27 | 976.1 |
| Average     | 74.79 | 81.6675 | 87.5675 | 81.34167 |
| Variance    | 10.52307 | 31.76889 | 1.414892 | 41.66242 |

| 77.32       |     |     |     |       |
| Count       | 4   | 4   | 4   | 12    |
| Sum         | 368.38 | 376.47 | 378.14 | 1122.99 |
| Average     | 92.095 | 94.1175 | 94.535 | 93.5825 |
| Variance    | 83.77697 | 25.90996 | 15.77363 | 35.45511 |

| Total       |     |     |     |       |
| Count       | 8   | 8   | 8   |       |
| Sum         | 667.54 | 703.14 | 728.41 |     |
| Average     | 83.4425 | 87.8925 | 91.05125 |     |
| Variance    | 125.9752 | 69.00594 | 21.23681 |     |

Figure ES 4 Comparison of FT-IR spectra of RCP1, RCP2 and RCP3