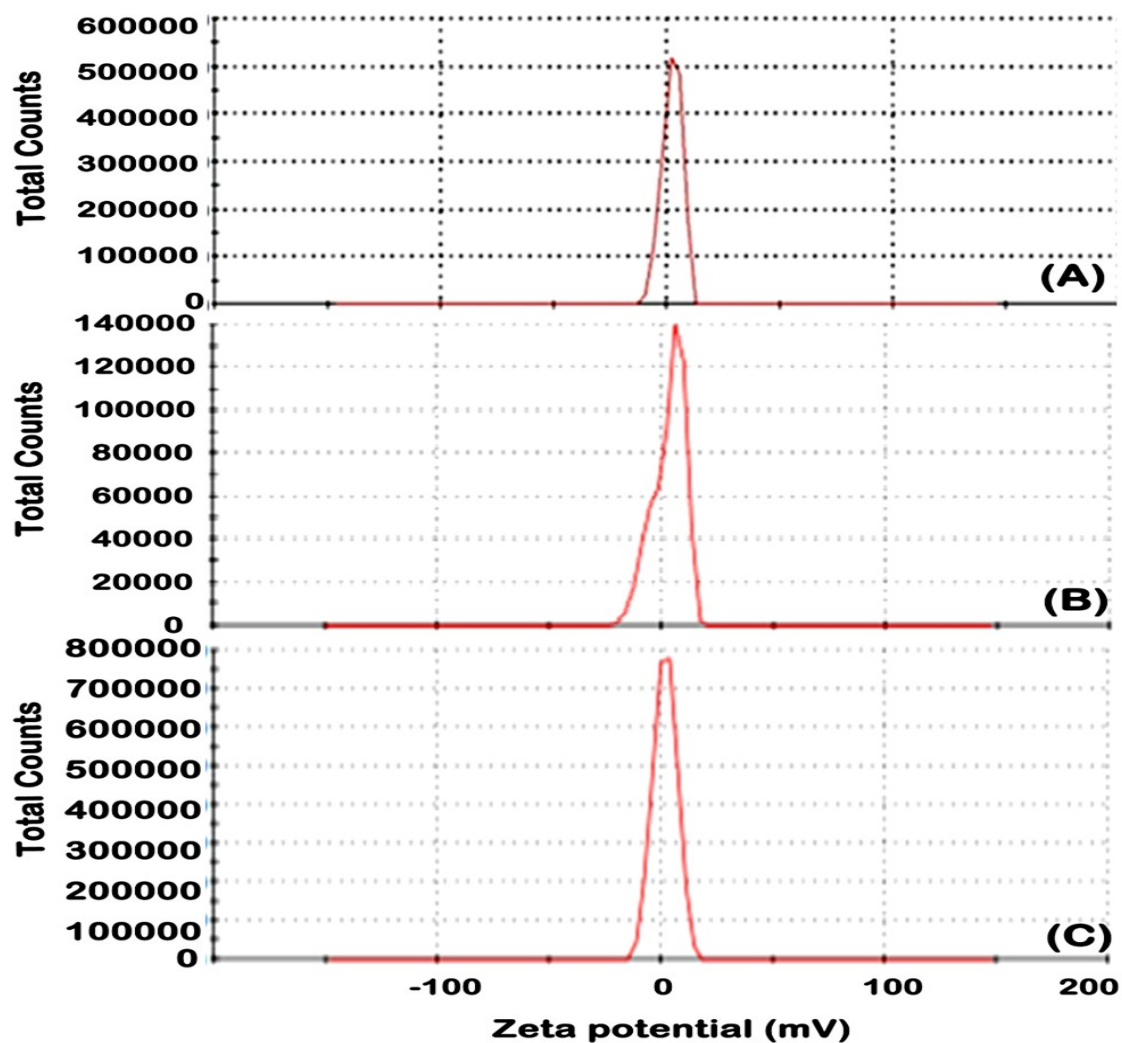
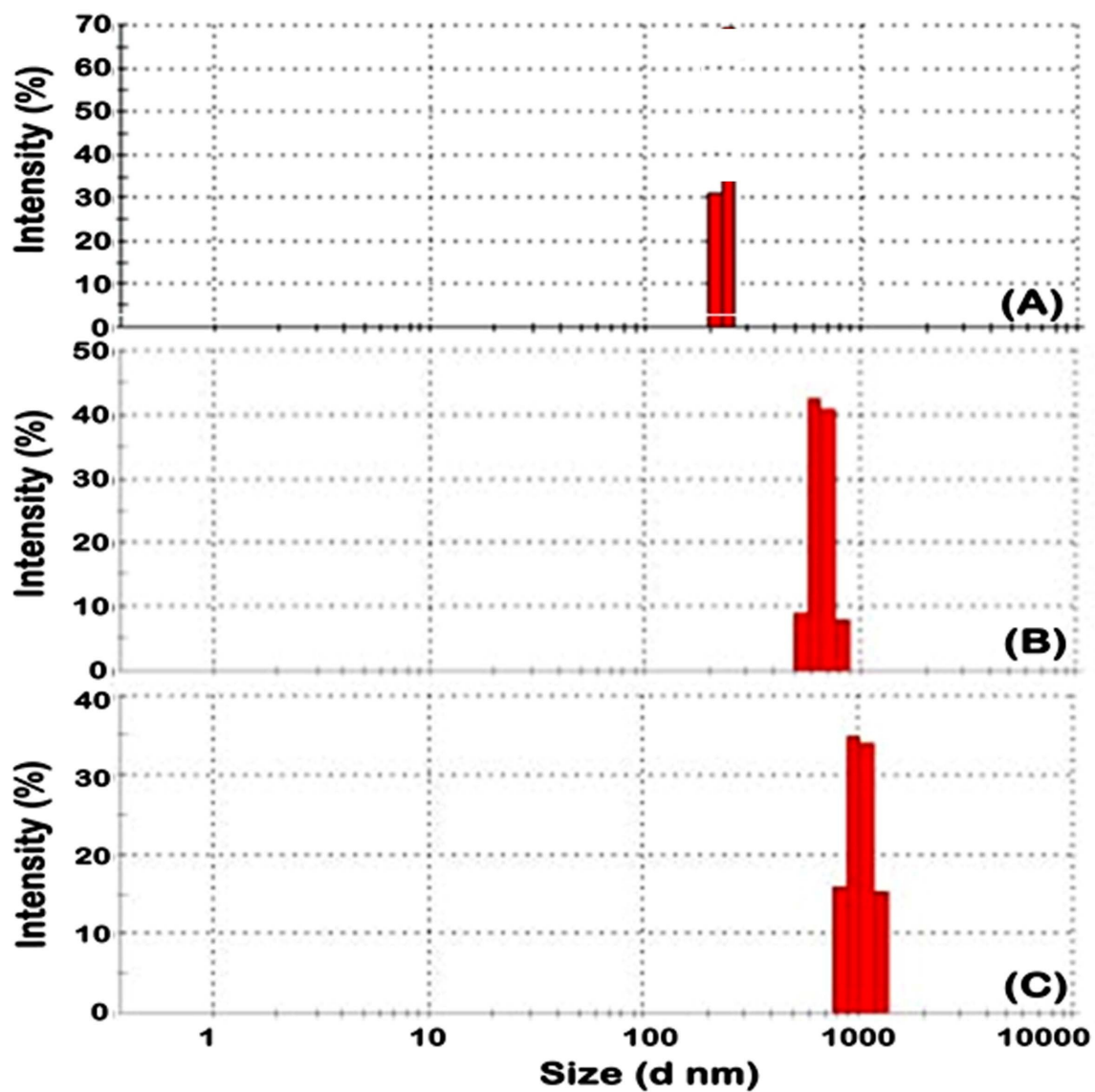


### Supplementary figures



**Supplementary Figure 1.** Zeta particle size distribution peaks: **A)** Chitosan nanoparticles, **B)** *Gymnema sylvestre* leaf extracts derived biomolecule-loaded chitosan nanoparticles (GSCZNPs) and **C)** *Cinnamomum zeylanicum* bark extracts derived biomolecule-loaded chitosan nanoparticles (CZCNPs).



**Supplementary Figure 2.** Results of Particle Density Index: **A)** Chitosan nanoparticles, **B)** *Gymnema sylvestre* leaf extracts derived biomolecule-loaded chitosan nanoparticles (GSCZNPs) and **C)** *Cinnamomum zeylanicum* bark extracts derived biomolecule-loaded chitosan nanoparticles (CZCNPs).