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(57) Abstract :

The present invention relates to Ibandronate loaded chitosan nanoparticles. The present invention also provides a process for the preparation of Ibandronate loaded chitosan nanoparticles. The formulation of Ibandronate loaded chitosan nanoparticles, comprising of Ibandronate, chitosan, and sodium tripolyphosphate. The process for the preparation of Ibandronate loaded chitosan nanoparticles comprises of dissolving chitosan in acetic acid, dissolving Ibandronate, sodium tripolyphosphate in chitosan solution, dissolving, stirring and recovering the nanoparticles by centrifugation of the formulation. In the Ibandronate loaded chitosan nanoparticles of present invention, the ratio of chitosan and sodium tripolyphosphate is 1:0.5. The particle size, drug entrapment efficiency, polydispersity index and zeta potential of nanoparticles of present invention is 176.1 nm, 63.28%, 0.269 and +34.2 mV respectively.

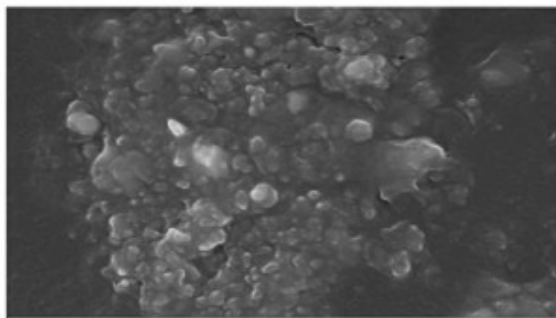


Figure 1

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