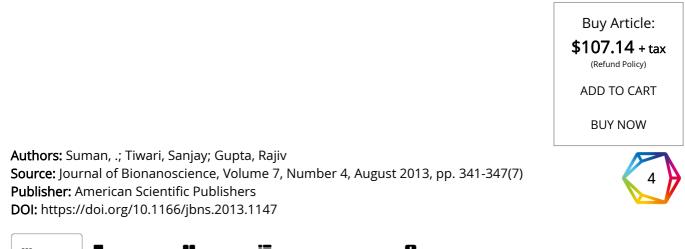
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## Development of Herbal Biodegradable Polymeric Nanoparticle from *Clerodendrum infortunatum* L.



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Abstract	References	Citations	Supplementary Data	Suggestions

*Background: Clerodendrum infortunatum* L. commonly known as Bhant, plays a significant role in Indian System of Medicine i.e., Ayurveda, due to its medicinal properties. It grows easily in waste places of all areas of India, Bangladesh and Myanmar. *Aim*: The present study was performed with a view to develop a formulation based on herbal nanoparticles to treat metabolic disorder like Hypercholesterolemia which ultimately results into a major risk factor like cardiovascular diseases, hypertension etc. *Method*: In this research, the petroleum ether extract of root of *Clerodendrum infortunatum* L. was used to formulate herbal nanoparticle and was evaluated for their surface morphology, entrapment efficiency, drug loading and surface charge. *Result*: Particle size of optimized batch was found to be 608 nm. Zeta potential, Drug loading and Entrapment Efficiency of optimized batch of Ether Extract was found to be –30 0 mV, 32.8% and 98.40% respectively. *Conclusion*: Hence, it was an attempt to make herbal polymeric nanoparticle from the ether extract of root of *Clerodendrum L* using PLGA as a polymer and hence can be used in treating hypercholesterolemia by passive targeting of nanoparticles to liver.

Keywords: BHANT; CLERODENDRUM INFORTUNATUM L; ETHNOMEDICINE; FORMULATION DEVELOPMENT

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