



# 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 Bhand, 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 infortunatum* 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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