CHAPTER 3

OBJECTIVE


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OBJECTIVES

The aim of the present work was to formulate an alternative dosage form of LEV in the form of nanoparticle, which release the drug at predetermined rate. This formulation may present distinct advantages over conventional dosage forms by improving the bioavailability and reducing the frequency of administration.

It has been noted from the literature that, the physicochemical and pharmacokinetic profiles of LEV, make it a suitable candidate for the development of a controlled drug delivery system. Therefore, in the current study, controlled releases of LEV nanoparticle was developed to ensure satisfactory drug release, enhance improved bioavailability, and reduce dose and frequency of administration and also to release the drug from the formulation in a controlled manner. Based on the above findings, the following objectives were framed as follows:

1. To formulate and characterize the LEV nanoparticles using chitosan, β cyclodextrin and hydroxypropyl β cyclodextrin for controlled drug delivery.

2. To study the effect of biodegradable polymer and solubility enhancers on the release of LEV from the formulated LEV nanoparticles.