CHAPTER - 2

OBJECTIVE OF THE WORK

Migraine, an acute condition which warrants immediate relief from pain may be treated by sumatriptan succinate. It is a safe and effective drug, used for treatment. There are different dosage forms of sumatriptan available, but they have certain disadvantages. Therefore a self administered novel drug delivery system which can provide rapid relief, with the added advantage of avoiding the second dose was proposed. To achieve these requirements, this work entitled “Preparation and evaluation of intranasal Sumatriptan succinate nanoparticles for rapid relief from migraine” was executed.

For the first time, nanoparticles of Sumatriptan succinate have been proposed and route of administration was by intranasal route. For the polymer matrix, Resomer® brand of poly-(lactide-co-glycolide), grade RG 502 H (Manufacture: Boehringer Ingelheim, Germany), was selected.

The nanoparticles are to be prepared by different methods and will be evaluated by in-vitro, ex-vivo, in situ and in-vivo methods using standard procedures.