
FORMULATION AND EVALUATION OF GLIMEPIRIDE LOADED NIOSOMES BY APPLYING MULTIPLE MEMBRANE EXTRUSION TECHNIQUE BY USING VARIOUS NON- IONIC SURFACTANTS

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Abstract-

The aim of the present research work were to developed and characterise the Glimepiride loaded Niosomes by applying multiple membrane extrusion techniques by using various on-ionic surfactants. Nowadays a days, the medication distribution arrangement are becoming extra tough day by day, as therapeutic researchers dealing with novel methods for the improved understanding of biochemical and physico-chemical belongings to make their performance improved. In the last 10 years, Niosomes loaded drugs demand has been elevated, because of the patients compliance due to the problem of swallowing, etc. In this research study, we had tried to evaluate the leakage of drug from the Niosomes vesciles by applying multiple membrane extrusion method and using Span-40, Span-60 and Span-80 as non-ionic surfactants. The Glimepiride loaded Niosomes were evaluated for its drug content uniformity entrapment efficiency vesicles size analysis, scanning electon microscopy and in-vitro-dissolution study.

Keywords- Glimepiride, SEM, Niosomes, Span-40, Cholestrol, Di-acetyl phosphate etc.