THE INFLUENCE OF NIOSOME SYSTEM (SPAN 20/60-CHOLESTEROL) ON THE PREPARATION CHARACTERISTICS AND RELEASED OF DICLOFENAC SODIUM FROM GEL CARBOPOL ETD 2020

Abstrak :

The purpose of the study was to determine the influence of niosome system that was formed by span (20/60) and cholesterol in molar ratio of sodium diclofenac, span (20/60), and cholesterol = 1:6:6 on the preparation characteristics and released of diclofenac sodium from gel carbopol ETD 2020. Formula I and II was a control of gel using Span 20 and 60, respectively. Formula III and IV were gel of diclofenac sodium that was prepared into niosome system with Span 20 and 60, respectively. The released was done by diffusion cell and cellophane membrane. Released of diclofenac sodium from all formulation was shown by value of flux and analyzed by statistic. The result of diclofenac-Span 20/60-cholesterol showed that there was a significant difference between formula I and formula III; formula II and formula IV; formula III and formula IV. The conclusion was niosome system that was formed by span (20/60) and cholesterol in molar ratio of sodium diclofenac, span 20, and cholesterol = 1:6:6 influenced on the preparation characteristics and increased the released of diclofenac sodium from gel. The highest released of diclofenac sodium was from niosom system of sodium diclofenac, span 60, and cholesterol with molar ratio=1:6:6.

Keyword :

Niosome, diclofenac sodium, carbopol ETD 2020, Span 20, Span 60, released of diclofenac.

Daftar Pustaka :


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