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Evaluation of phytosomes containing Ethanolic extract of Aerial parts of *Mukia maderaspatana*

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Abstract : The aim of the present investigation was to formulate *Mukia maderspatana* loaded Phytosome for improved delivery. Phytosomal formulations were developed using different concentration of Cholesterol (1-3%) then optimized and characterized. Particle size, entrapment efficiency and vesicular shape were determined by Malvern Zetasizer, and Scanning Electron Microscopy, respectively. Particle size varied from 175 to 510 nm depending on the concentrations of Cholesterol. Entrapment efficiencies were exhibited of 38.42-84.26%, where it increased with concentration of cholesterol increased. Photomicrographs revealed that optimized Phytosomes were spherical in shape and uniform in size. Based on minimum particle size and maximum entrapment efficiency F9 (3% of Cholesterol concentration and 40% of ethanol concentration) was selected as optimization Phytosomal formulation.

Key Words : *Mukia maderspatana*, Optimization, Characterization, Phytosome.

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