

LIPOSOME : A Novel Drug Delivery System

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Abstract: *As synthetic vesicles, liposomes have emerged as crucial instruments for enhancing the delivery of a vast numerous medications, including peptide hormones, enzymes, antimicrobial agents, cancer medications, antifungal medications, genetic materials and vaccinations. Owing to variations in lipid compositions and preparation techniques, The lamellarity, size, charge, and application of liposomes can all be used to categorize them. The adaptability of their Behavior can be used to deliver drugs via a variety of administration methods, regardless of their solubility characteristics. Drug encapsulation in liposomes has made it possible to improve the therapeutic indices of numerous medications, primarily by modifying their biodistribution, directing the medication to certain tissues. The regulated delivery of drugs is the function of liposomes as a drug delivery system. Decreasing unfavorable side effects, increasing its activity both in vitro and in vivo, and lowering the toxicity of the medication and improving the encapsulated medicine's effectiveness. This article offers a summary of techniques for Liposome preparation and analysis techniques to regulate physical, chemical, and biological parameters for several kinds of medications.*

Keywords: Liposomes, Drug delivery system, Phospholipids, Components of liposome

