

# Review on Niosome-A Future of Targeted Drug Delivery System

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**Abstract:** Niosome are non-ionic surfactant vesicles obtained on hydration of synthetic nonionic surfactants, with or without incorporation of cholesterol or their lipids. They are vesicular systems similar to liposomes that can be used as carriers of amphiphilic and lipophilic drugs. Niosome appears to be a well preferred drug delivery system over liposome as niosome being stable and economic. Also niosomes have great drug delivery potential for targeted delivery of anti-cancer, anti-infective agents. Niosomes can entrap both hydrophilic and lipophilic drugs and can prolong the circulation of the entrapped drug in body. Encapsulation of drug in vesicular system can be predicted to prolong the existence of drug in the systemic circulation and enhance penetration into target tissue, perhaps reduce toxicity if selective uptake can be achieved. This review article focuses on the advantages, disadvantages, preparation methods, factors affecting, characterizations, mechanism of action, and applications of niosome.

**Keywords:** Niosomes, Cholesterol, Non-ionic surfactants, Amphiphile, Drug carrier, Types, Preparation methods, Characterization, Advantages, Applications

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