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A detailed review on niosomal drug delivery system

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Abstract:

Niosomes are minuscule vesicles of non-ionic surfactant that are created when the surfactant self-assembles. A promising new medicine delivery strategy is niosomal drug delivery. Liposomes and niosomes are different chemically, yet they share comparable morphological characteristics. Non-ionic surfactants form niosomal vesicles, while lipids form liposomal vesicles. Because surfactants have a stronger chemical stability than lipids, niosomes are superior to liposomes. The notion of niosomes, their benefits and drawbacks, their composition and preparation process, the variables affecting niosomal formulation and characterization, and their applications are the main topics of this review paper. Numerous illnesses, including Parkinson's, cancer, migraines, psoriasis, and leishmaniasis, can be treated by niosomes. Niosomes are a useful tool for diagnosis. Niosomal administration can be accomplished by intramuscular, intravenous, peroral, or transdermal routes. In cosmetics, niosomal technology is commonly employed. Researchers still need to pay close attention to how niosomes can be used commercially for medication delivery.

Keywords:

Niosomes, Anti-tumor agents, Non-ionic surfactant.