Abstract

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Clinical Pharmacology and Toxicology Journal 2022

Vol6.No.2

Moein Masjedi

An Illustrated Review on Nonionic Surfactant Vesicles (Niosomes) as an Approach in Modern Drug Delivery:

After the beginning of nanotechnology, nanomedicines have attracted great attention for more efficient and safe drug delivery. In this regard, a large number of studies have been allocated to nanosized vesicular systems such as liposomes. Niosomes, the newer

generation of vesicular nanocarriers are self-assembled vesicles composed of nonionic surfactants with/without appropriate amounts of cholesterol or other amphiphilic molecules. Similar to liposomes, niosomes can be uni- or multilamellar, have the ability to embed both lipophilic and hydrophilic bioactive substances. Nanosized niosomes can deliver the drug to the active site. Moreover, they have the advantages of improving pharmacokinetics, lowering toxicity, improving the solubility of poorly water-soluble drugs, and bioavailability. Compared to liposomes, niosomes have fewer production costs and more stability during storage. This up-to-date illustrated review covers the composition, fabrication techniques, and their advantages and drawbacks, characterization, administration routes, and pharmaceutical and cosmetic applications moein masjedi@gmail.com

Received: April 05, 2022

of nonionic surfactant vesicles.

Accepted: April 16, 2022

Published: April 28, 2022

Biography

Abstract

Moein Masjedi has completed his PhD at the age of 29 years from Shiraz University of Medical Sciences. He is CEO of Daroosazan Sorena Exir Cosmetic Company (DSE Co.), a nanotechnology-based cosmetic manufacturing company. He has published more than 9 papers in reputed journals