IJARSCT
International Journal of Advanced Research in Science, Communication and Technology
International Open-Access, Double-Blind, Peer-Reviewed, Refereed, Multidisciplinary Online Journal
ISSN: 2581-9429
Volume 5, Issue 8, March 2025
Impact Factor: 7.67

NIOSOMES: A Review of Their Structure, Types, Method of Preparation, Characterization and Application

Ms. Kathoke G. G[1], Ms. Shelke P. U[2], Mr. Kale A. S[3], Mr. Bedre A. B[4]
Department of Pharmaceutics[1-4]
SBNM College of Pharmacy, Hatta, India

Abstract: *Drug targeting is a type of phenomenon in which a drug is distributed in the body in such a way that the drug interacts with the target tissue at the cellular or subcellular level to achieve the desired therapeutic response at the desired site without unwanted interactions at other sites. This can be achieved by modern methods of drug delivery system targeting such as niosomes. Niosomes are a type of non-ionic surfactant vesicles that are biodegradable, non-toxic, more stable and cheaper, which is a new approach to liposomes. Their structure is similar to liposomes and therefore they may represent alternative vesicular systems to liposomes. Niosomes tend to load different types of drugs. This review article presents niosomes structure, advantages, disadvantages, niosomes preparation methods and characterization of pharmaceutical NSVs. The concept of a drug delivery system refers to the process of administering pharmaceutical compounds at a predetermined rate to achieve a therapeutic effect in humans or animals at the site of disease while simultaneously reducing the concentration of the drug in surrounding tissues. The localized action of the drug increases the effectiveness of the drug and reduces systemic toxic effects on tissues.*

Keywords: Niosomes, Structure, Compositions, Method of preparation, Factors affecting, Application

Copyright to IJARSCT
www.ijarsct.co.in

DOI: 10.48175/IJARSCT-24535