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Nanosponges: A Emerging trend in the Targeted Drug Delivery System

Abhidnya S. Shirke, Aditya A. Walunj, Ajay C. Ahire, Dinesh Burute, Mr. Sachin M. Bhalekar
Samarth Institute of pharmacy, Belhe, Maharashtra, India

Abstract: *Nanosponges are small three dimensional porous structure about the size of nanometer that can contain many different drugs. The long term attempt to create efficient, targeted medication delivery system have been delayed by the complexity of the chemical interaction required to build drug delivery system. The most of the drugs come from the synthetic chemistry posses poor water solubility and approximately 70% of drug fall under such category. Nanosponges is being priorities to control the delivery of drug/API/Phytoconstituent to particulate the skin targeting. The nanosponges porous construction allow it to trap drug molecular and release them gradually. Nanosponges are used for target drug delivery system (TDDS). This review article deals with the general introduction, mechanisum of action, advantages, Disadvantages, preparation methodologies and evaluation parameter*

Keywords: Nanosponges, Trageted drug delivery system, Crosslinker, Topical targeted, controlled release

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