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LIPOSOMES: AN OVERVIEW

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ABSTRACT

Nanotechnology is the study and control of matter with dimensions ranging from 1 to 100 nm. The use of precisely engineered materials at this length scale to create novel therapeutic and diagnostic modalities is known as nanomedicine, or the application of nanotechnology to medicine. The delivery and encapsulation of bioactive agents is made possible by the novel nanostructure known as the liposome. You can add a variety of bioactive substances to liposomes, including food additives, cosmetics, and medications. Due to their unique characteristics, including their nanosize and biocompatibility, liposomes have potential to be employed in the food, cosmetics, and nanomedicine industries. The balance between on- and off-targeted distribution can be changed by liposomal formulations, which enhance the therapeutic index of encapsulated medications. The primary reason for the increased therapeutic efficacy of liposomal medications is their improved distribution at the sites of action. Since lipidic nanoparticles were the first nanomedicine delivery system to successfully move from concept to clinical application, they have gained significant clinical acceptance and are now a well-established scientific platform. In the future, there will undoubtedly be a lot more clinical product.

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