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Nano Liposomes: Tools for Advanced Technology

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Abstract:

Liposomes are defined as spherical micro- or nano-sized particles that contain an internal water pool surrounded by a bilaminar membrane. The building blocks of the membrane are phospholipid molecules or a combination of phospholipids with sterols, such as cholesterol, or with other surface -active ingredients. Phospholipids are a group of molecules that have both hydrophilic and hydrophobic nature. The liposomes are characterized with respect to physical, chemical and biological parameters. The sizing of liposome is also critical parameter which helps characterize the liposome which is usually performed by sequential extrusion at relatively low pressure through polycarbonate membrane (PCM). The targeting agents may be included throughout the nanocells, only in the inner nanocore, only in the outer lipid or polymeric shell portion, or may be only on the surface of the nanocell. The targeting agent may be a protein, peptide, carbohydrate, glycoprotein, lipid, small molecule, metal, etc. The targeting agent may be used to target specific cells or tissues or may be used to promote endocytosis or phagocytosis of the particle.

The present review focus The advantages and advances of Liposome in different Scientific aspects.

The Review also highlights The application of nanoliposome in Target drug delivery.

Key Word :Liposomes,Nanocell, lipoproteins, glycoprotein, noncore

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