

# Synthetic Surfactant Vesicles

niosomes and  
other non-phospholipid vesicular systems

Edited by Ijeoma F. Uchegbu



**DRUG TARGETING AND DELIVERY**  
Series Editors: Alexander T. Florence and Gregory Gregoriadis



# Synthetic Surfactant Vesicles

**Ijeoma F. Uchegbu**



## **Synthetic Surfactant Vesicles:**

*Synthetic Surfactant Vesicles* L F Uchegbu, 2000-02-23 The self assembly of synthetic surfactants and other non phospholipids into vesicles was first studied in the 1970s by cosmetic scientists when non ionic surfactant vesicles or niosomes were reported Since this time a large body of research has sought to define these systems primarily as drug carriers and also as features of interest to the colloid scientist Synthetic surfactant vesicles as the name implies may also be fabricated from a vast array of amphiphiles including a number of pharmaceutically acceptable materials They may also be prepared in a variety of shapes and sizes and have a number of applications This book is designed to serve as an introductory text to the science of non phospholipid vesicles and will be of use to colloid drug delivery cosmetic and materials scientists It aims to acquaint the reader with the physicochemistry and biomedical applications of these synthetic surfactant non phospholipid vesicles Part one introduces the reader to physicochemical aspects of these synthetic surfactant dispersions and explores the diversity of materials that may be used to formulate vesicles Part two details methods of vesicle preparation and the application of synthetic surfactant vesicles in a variety of fields ranging from anti cancer chemotherapy to immunization

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The self assembly of synthetic surfactants and other non phospholipids into vesicles was first studied in the 1970s by cosmetic scientists when non ionic surfactant vesicles or niosomes were reported Since this time a large body of research has sought to define these systems primarily as drug carriers and also as features of interest to the colloid scientist Synthetic surfactant vesicles as the name implies may also be fabricated from a vast array of amphiphiles including a number of pharmaceutically acceptable materials They may also be prepared in a variety of shapes and sizes and have a number of applications This book is designed to serve as an introductory text to the science of non phospholipid vesicles and will be of use to colloid drug delivery cosmetic and materials scientists It aims to acquaint the reader with the physicochemistry and biomedical applications of these synthetic surfactant non phospholipid vesicles Part one introduces the reader to physicochemical aspects of these synthetic surfactant dispersions and explores the diversity of materials that may be used to formulate vesicles Part two details methods of vesicle preparation and the application of synthetic surfactant vesicles in a variety of fields ranging from anti cancer chemotherapy to immunization      Reactions And Synthesis In Surfactant Systems John Texter,2001-06-26 This work offers a comprehensive review of surfactant systems in organic inorganic colloidal surface and materials chemistry It provides practical applications to reaction chemistry organic and inorganic particle formation synthesis and processing molecular recognition and surfactant templating It also allows closer collaboration between synthetic and physical practitioners in developing new materials and devices      **Synthetic Surfactant Vesicles as Unique Reaction Media** George O. Bizzigotti,1982      **Surfactant Aggregation** J.H. Clint,2012-12-06

Surface Active Agents surfactants are vital components in biological systems form key ingredients in consumer products and play an important role in many industrial processes For example cell membranes owe their structure to the aggregation of surfactants known as lipids which form a major component of the membrane Other natural surfactants occur in the digestive system in the lungs and even in such substances as crude oil Man made surfactants are used in a wide range of domestic and industrial products and processes In addition to detergents and personal care products surfactants have found uses in almost every branch of the chemical industry as well as in several other industries These include dyestuffs fibres mineral processing oil field chemicals paints pesticides pharmaceuticals and plastics Surfactants are versatile materials which are manufactured in a huge variety of forms to suit all of these applications As a result of their importance the technical literature on all aspects of surfactant behaviour is now very extensive Surprisingly however the treatment in textbooks has been somewhat fragmented

often in the form of conference proceedings or edited multi authored works both lacking in continuity

**Photochemistry in Microheterogeneous Systems** K Kalyanasundaram, 2012-12-02 Photochemistry in Microheterogeneous Systems provides an introduction to the subject of photochemistry in microheterogeneous systems Emphasis is on the unimolecular and bimolecular reactions of electronically excited molecules in non homogeneous media as well as the application of photophysical and photochemical processes and techniques to the study of various microheterogeneous systems of chemical and biological interest from normal and inverted micelles to vesicles and liposomes monolayers black lipid membranes and liquid crystalline solvents This monograph is comprised of 10 chapters and begins with an overview of microheterogeneous systems excited state processes and reactions photochemistry in microheterogeneous systems and structural and dynamical aspects of micellar aggregates The discussion then turns to micellar photophysics and photochemistry with emphasis on singlet state and triplet state reactions Subsequent chapters focus on photoprocesses in a variety of microheterogeneous systems such as reversed micelles microemulsions lipids surfactant vesicles and liposomes polymers polyelectrolytes and ion exchange membranes and molecular inclusion complexes The final chapter is devoted to the photochemistry of molecules in the adsorbed state This text is intended for graduate students and practicing chemists

**Liposomes in Drug Delivery** Alexander T. Florence, 2017-10-05 This book is an outcome of the conference on the liposomes in drug delivery 21 years held in University of London in 1990 It covers themes such as novel carrier systems newer and potential responsive or pulsatile systems or systems such as liposomes which have a longer pedigree

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