Phytosomes: An Advanced Herbal Drug Delivery System

Archana Dhyani* and Divya Juyal

Department of Pharmaceutics, Himalayan Institute of Pharmacy and Research, India

Submission: April 21, 2017; Published: April 28, 2017

*Corresponding author: Archana Dhyani, Department of Pharmaceutics, Himalayan Institute of Pharmacy And Research, Dehradun, India, Tel: +919456315495; Email: archana.dhyani89@gmail.com

Advantages of phytosomes [2]

As compare to conventional herbal formulation, Phytosomes have following advantages:

I. It enhance the absorption of lipid insoluble polar phytoconstituents through oral as well as topical way showing improved bioavailability, therefore extensively better therapeutic profit.

II. When the absorption of active constituent(s) is enhanced, its quantity requirement is too reduced.

III. Chemical bonds are created between phosphatidylcholine molecule and phytoconstituent, consequently the phytosomes prove improved stability outline.

IV. Additional nutritional profit of phospholipids.

V. Considerable drug entrapment.

VI. Application of phytoconstituents in form of phytosome improves their percutaneous absorption and act as functional cosmetics.

VII. Phytosome process produces a little cell whereby the costly components of the herbal extract are sheltered from damage by digestive secretion and gut bacteria.

Comparison of liposomes and phytosome

Like to phytosomes, a liposome is a combination of hydrophilic material and phosphatidylcholine in a specific ratio, with a water soluble substance is bounded by phosphatidylcholine molecule. In comparison, phytosomes is a combination of water soluble entity and phosphatidylcholine produced in the ratio of 1:1 or 2:1 molecular complex with chemical bonding between phytoconstituents and phosphatidylcholine. Phytosome have proved to be efficient in topical and skin care products than liposomes [3].

Applications [4]

I. Phytosome are use in the handling of liver disease include alcoholic hepatic steatosis, drug induced liver damage and hepatitis.

II. Phytosomes are use in anti-inflammatory action, pharmaceutical and in beauty composition.

III. Phytosomes are used to treat acute and chronic liver disease of toxic metabolic or infective source or of degenerative environment.

IV. Phytosomes are used as brain stimulant, immunomodulator ,skin improver, antiwrinkle, anti-aging etc.

V. They are used as anticancer and antioxidant, eg- grape seed.

VI. They are used in hyperlipidemia, vein and skin disorder.

VII. They are used as cancer chemo preventive agent and use to care of benign prostate hyperplasia.

VIII. They are also used to treat hypertension.
References


Your next submission with Juniper Publishers will reach you the below assets

- Quality Editorial service
- Swift Peer Review
- Reprints availability
- E-prints Service
- Manuscript Podcast for convenient understanding
- Global attainment for your research
- Manuscript accessibility in different formats (Pdf, E-pub, Full Text, Audio)
- Unceasing customer service

Track the below URL for one-step submission
https://juniperpublishers.com/online-submission.php

This work is licensed under Creative Commons Attribution 4.0 License
DOI: 10.19080/CTBEB.2017.03.555621