Available online on seven (iddt.com) International Journal of Drug Delivery Technology 2017; 7(3); 157-165 doi: 10.25258/iiddt.v7i03.9559

Research Aruolo

ISSN: 0975 4415

Phytosome Drug Delivery of Natural Products: A Promising Technique for Enhancing Bioavailability

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Received: 10th Mar, 17; Revised 11th Aug. 17, accepted: 12th Sept. 17; Available Online: 25th Sept. 2017

ABSTRACT

The phytoscene technology was developed by Indexa markedly enhancing the bioavailability of selected phytomedicines, by incorporating phospholopids into standardized plant extract, which improve their absorption and utilization. Phytoscene are advanced form of herbol extract this shows better absorption profile than conventional herbal extract. The present review facus on the preparation and characterization techniques of phytostenes, merits and various landmarks in the field of phytostenes.

Keywords: Bioacartability, Natural Products, Physicalignals, Physicanne, Quer, 2001.

INTRODUCTION.

Since the dawn of history multimust medicines have proved their effectiveness for health momentment. Most of the billiouting plant constituent such as terpensuls. flavomoids, phanulic glucosules and anthocyannis are alhurhly gutar sature (souter soluble) as hydrophete in drug as GI mumbrane illights inopindue i does not permit the passage of highly water while substance actuss it and finally moult in pear bioavailability. There all him is the extent and pale at which the acrive conclusion i.e. drag or metabolite reaches in the blood and proves climical efficacy and also minumises the dove. For a origito be bisavailable, it should have proper hydrophillicity as well as ipophillicity. In midition, other factors rice like poor light solubility, improper mulecular sort, distinguished in sal, highly distributed throughout the body. have here plasma half life, poor stability and inefficient to meach that target tessue fortal their house tavity. The averagettee all these limitations a number of mosel drug delivery systems have been emerged by plant estracts. It includes, novel herbal liternachemists bloc stantistatiochen. numicapitales, phytosomes, niceomes, transferosomes, ethosomes, promoving hoving remarkable advantage over traditional plain grounces including solutions enformations, Renovalishabity improvement, as polarivarious formalization technology as improve drug absorption and provide better efficacy than communat plant cuiracil

Herbiosonic is a systemyth of Poylessinic Herbio' on "Phyto' stands for herbid or plant based and 'soun' means well like. It is a potented technology in which standardised plant extract or polyplacially compounds take flavorood, terpennids and tamon atc.) made to react

with plaupholigida to form a lipid compatible complex* Phytosomes is a molecular association in which a hybrid bend formation occurs between phosphatidylcholing (PC). and polyphenol, creating a highly lipid-muscible hybrid complex having reduced polarity and ability to cross the biological membrane. Flence improving the laurentability of polyphenol. Phospholipids are the mum building blocks of life and are one of the major components of hiological membranes. Phospholipids are regarded as natural digestive aid, having nutritional properties like phos-phatidylserine which acts as a brain cell nutrient, phosphatidylcholine which is helpful in liver cell regeneration. lipid reducing effect and also act as carriers for both polar and non-polar active substances*. Various Phospholipids from different sources can be used such as soy lecithin, phosphatidylsering, and 1,2di uni ovi Sn-giyeuro-3phusphutidylcholine. Phosphylipuls derived from soybean oil having higher mattern of phosphatidyleholitar offers compatibility and substanty with the biological membrane. Phytosomes are dram 1 by tracting 2-3 moles or 1 mole of phospholipid such an altriaphatidyleholine, phosphatidyl- ethanolemine or phosphatelyl-serve with 1 mole of bioactive component (flavouoids or unperiods) in an aprotic solvent (diaxane, acetone, methylene chloride, ethyl acutaut) The volvent evaporated under vacuum or precipitation with non-solvent (aliphatic hydrocarbons), toophilization (burge-drying) or sproy drying, therefore the complex is isolated. Advantages of phytosomes are tanter drug entropment, enhanced absorption of polar Phytoconstituents leading to improved bioavailability. Reduced dose requirement, Better stability profile due to chemical bond formation, improved percutaneous absorption, so act as functional conmetic. Several companies are involved in production and marketing of

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