



Presents for your consideration:

Lipopure Liposomes™

A Revolutionary New Delivery System

The role of liposomes as a highly effective drug/nutrient carrier is giving these amphiphilic molecules credit and recognition as the modern day version of the "Magic Bullet".

Lipopure Liposomes™ are ideally suited for drug/nutrient delivery because of their unique hydrophilic and lipophilic properties. Whether Liposomes are used to protect the encapsulated drug/nutrient from degradation or as a depot, providing sustained release, or used to target the drug/nutrient to its action site, new research indicates that nutritional supplements designed in a liposomal base should provide optimal therapeutic effects.

The liposomes trap the nutrients in multiple layers, and unravel them slowly like an onion, releasing the nutrients over an extended period of time.

For maximum bioavailability, use Lipopure Liposomes™

Liposomes are coated multi-lamellar systems consisting of particles that are approximately 50 to 750 nanometers in size. Each particle contains alternate lipid and aqueous layers. BioGenesis™ Liposomal delivery products are based on all natural ingredients, and are naturally preserved. We use natural Vitamin E, Vitamin C, Grapefruit Extract, Willow Bark Extract, Lauricidin, and Green Tea Extract. We pH balance our Liposomes with Potassium Glycerol Phosphate instead of Caustic Soda or Triethanolamine, (which is more costly), and easily tolerated by the skin and mucosal membranes. Our Liposomes™ are formulated to be no more than 300 nanometers in size to assure for maximum absorption and distribution to target tissues. Phosphatidyl choline is the main film-forming agent we use because of its lipid and water fractions.

Oral Delivery System vs. The Digestive System

In addition to our highly absorbable capsule products, we offer you a line of liposomal oral sprays. Liposomal delivery offers several advantages over traditional digestive tract delivery systems. Liposomes™ can be absorbed directly through the oral mucosal bypassing the gut. This method of absorption delivers a much higher percentage of active ingredients to your patients target tissues. Nutrient absorption is nearly instantaneous and sustained by the gradual release of the active ingredients in the target tissues and the blood stream. For your geriatric patients or your patients with malabsorption problems, digestive enzyme/HCl deficiencies, etc., this system offers clear advantages.

The penetration ability combined with the timed-release mechanism of the micro encapsulation allow for a dramatically increased bioavailability of the active ingredient. This means smaller dosages will have greater effects than ever before possible!

Liposomal products available through BioGenesis include:

LIPOPURE MELATONIN™

(2oz. bottle)

Melatonin 1.5 mg./1 ml. dropper

Vitamin B6 1.5 mg./1 ml. dropper

LIPOPURE PROGESTERONE™

Progesterone Liquid 15 mg/0.5 ml.

2oz bottle 1 mg/1 drop

If you are looking for higher absorption and targeted sustained delivery for your patients, try BioGenesis Lipopure Liposomals™.

References:

1. Curatolo W. The Lipoidal Permeability Barriers of the Skin and Alimentary Tract. *Pharm Res* 1987;4(4):271-277
2. Bangham AD, Standish MM et al. Diffusion of Univalent Ions Across the Lamellae of Swollen Phospholipids. *J Mol Biol* 1965;13:238
3. Mezei M, Nugent JF. Method of Encapsulating Biologically Active Materials in Multilamellar Lipid Vesicles (MLV). U.S. Patent no. 4, 1984. 485, 054.
4. Leserman L, Machy P. Ligand Targeting of Liposomes. In: Ostro MJ, ed. *Liposomes from Biophysics to Therapeutics*. New York: Marcel Dekker Inc., 1987:157
5. Ghose T, Singh M et al. Antibody-aided Liposomal Drug Delivery. In: Gregoriadis G, ed. *Liposomes as Drug Carriers*. New York: John Wiley and Sons. 1988:697.
6. Lopez-Berestein G, Juliano RL. Duplication of Liposomes and the Delivery of Anti-fungal Agents. In: Ostro MJ, ed. *Liposomes from Biophysics to Therapeutics*. New York: Marcel Dekker Inc., 1987:253.
7. Patel HM. Liposomes as a Controlled Release System. *Biochem Soc Trans* 1985;13:513-561.

These statements have not been evaluated by the Food and Drug Administration. These products are not intended to diagnose, treat, cure, or prevent any disease.

*For Quality and Value without
Compromise*



Is the logical choice!