GUINOXOME – LIPOSOMAL SOLUTION

Base for Compounding

1. General Information	**Name:** GUINOXOME LIPOSOMAL SOLUTION **Bulk code:** 10223
2. Description	Guinama GuinoXome Liposomal Solution offers liposomal technology to all. Made with pure phosphatidylcholine, pharmaceutical-grade ethanol and the exact amount of emulsifier to form high-quality liposomes. Free from preservatives and superfluous excipients. GuinoXome solutions allow a large amount of active ingredients to be transported as they are not liposomes made to fill, but rather the oily phase that self-emulsifies when combined with the solution of the active ingredient to be made liposomal. Thanks to the new LipoEasy® system of the GuinoXome solutions, they are easy to use, versatile, efficient in encapsulation and innovative. With GuinoXome, the result is assured.
3. Composition	ALCOHOL, LECITHIN, POLYSORBATE 20.
4. Physicochemical Characteristics	Physical characteristics: Hydroalcoholic, transparent, yellowy solution. pH range: 6.0 – 8.0 Density: 0.8 – 0.9 g/ml Penetration capability: Very high API compatibility: Hydrophilic and lipophilic according to M.O
5. Properties/Uses	▪ Industrial base for compounding. ▪ Self-emulsifying fatty base prepared to create liposomes. ▪ TOPICAL USE. ▪ Various sizes of liposomes can be formed, according to the active ingredient to be transported, but always between 150 and 1000 nm. ▪ High encapsulation, over 90%. ▪ LipoEasy System®, a procedure designed by the Research Department at GUINAMA Laboratories, facilitates the creation of different types of liposomes and grants the liposomal base great versatility. ▪ High stability of the liposomes created. ▪ Diluted five times (approximately) to create liposomes. ▪ Filtration is carried out using filters of 0,22 µm (AC or PES).

	▪ Better penetration of the active ingredients and fewer side effects (see bibliography). ▪ Free from preservatives, additives and hexane. ▪ The recommended percentage of GuinoXome to create liposomes is 20-25%. ▪ Has undergone stability and zeta potential studies. ▪ The product has been handle in non-sterile rooms, therefore the product IS NOT STERILE.
6. Recommended packaging	Topaz glass pot, glass pot with spray cap 50 ml (1899 + 6273) or 100 ml (1900 + 6275), airless ecosolution.
7. Toxicity or precautions for use	The base is not applied directly. Liposomal creations have the indication recommended by the creator. Do not apply to wounds or the mucosa. For more information, see the safety data sheet.
8. Storage	Store at room temperature (25±2ºC), in a cool, dry place, away from sunlight, in a tightly closed container.
9.Incompatibilities	Incompatible with very strong alkalis and acids.
10. Bibliography	▪ Liposome Technology. 3rd ed. Vol. I and II. Edited by Gregory Gregoriadis ▪ Nanocosmetics and Nanomedicines. Ed. Springer. By Ruy Beck, Silvia Guterres and Adriana Pohlman ▪ Nanoparticle Drug Delivery Systems. By Deepak Thassu, Mechel Deleers, Yashwant Pathak ▪ Nanoparticle Technology for Drug Delivery. Edited by Ram B. Gupta and Aday B. Kompella. ▪ Internal study financed by GUINAMA, S.L.U. to determine the characteristics of minoxidil liposomes. Carried out by the University of Valencia. Pharmaceutical Technology Department. Project managers Octavio Diez and Ofelia Vila. 2015 – 2016.