

ELASTIC LIPOSOMES ENCAPSULATING PALMITOYL PENTAPEPTIDE-4 (Anti-wrinkle, Protector and regenerator of the Extracellular Matrix)

CODE: ELIPH-2

Date of last amendment: 06.03.2023

INCI name: WATER (AQUA) (AND) PROPANEDIOL (AND) HYDROGENATED PHOSPHATIDYLCHOLINE (AND)) CAPRYLIC/ CAPRIC TRIGLYCERIDE (AND) LINOLEIC ACID (AND) CAPRYLYL GLYCOL (AND) PALMITOYL PENTAPEPTIDE-4 (AND) TOCOPHERYL ACETATE.

CHARACTERISTICS: Liposomes of hydrogenated phosphatidylcholine, pharma grade (not genetically modified) and Linoleic acid, which encapsulate and transport Palmitoyl Pentapeptide-4 and Vitamin E Acetate as an antioxidant and membrane stabilizer.

PROPERTIES: Palmitoyl Pentapeptide-4 is a combination of 5 amino acids and Palmitic acid. They constitute the basis for the formation of proteins. It can be considered an advancement as they improve the appearance of the skin without damaging or irritating the skin in any way.

Palmitoyl pentapeptide-4 is part of Matrikin and are messengers that regulate cell proliferation, promote the formation of collagen and elastin and the renewal of the cellular matrix. It is also known in the market by the name Matrixyl.

COMPOSITION (INCI NAME)	% (weight)	CAS #
Water (Aqua)	87,800	7732-18-5
Hydrogenated Phosphatidylcholine	3,000	97281-48-6
Caprylic/ Capric Triglyceride	3,000	73398-61-5/ 65381-09-1
Linoleic acid	0,500	60-33-3
Palmitoyl Pentapeptide-4	0,100	-----
Tocopheryl Acetate	0,100	7695-91-2 / 58-95-7
Conservantes:		
Propanediol	5,000	504-63-2 / 26264-14-2
Caprylyl Glycol	0,500	1117-86-8

Particle size:	110 – 300 nm (DLS)
Manufacturing method:	Microfluidization
Net charge of the liposome:	Negative
Type of liposome:	Oligo-unilamellar
Color:	White to brownish
Appearance:	Opalescent liquid. Absence of foreign matter
Odor:	Mild, pleasant
pH:	5.00 – 7.00 (25°C) (USP XXVII)
Density:	0.980 – 1.050 (pycnometer) (20°C) (USP XXVII)
Dry residue:	7.00 gr % minimum (0.5 gr. 1 hour 110° C)
Microbiological control:	Mesophilic bacteria: less than 200 CFU/gr. Moulds & yeast: less than 20 CFU/gr. No pathogens.

Keep refrigerated (5-15°C). Do not freeze. Protect from light. Shake before use.

EXTERNAL COSMETIC USE