

## RETINOL & UV FILTER LIPOSOMES

**CODE:** LIP-83

Date of last amendment: 16.12.2021

**INCI name:** WATER (AQUA) (AND) PHOSPHOLIPIDS (AND) RETINOL (AND) ETHYLHEXYL METHOXYCINNAMATE (AND) PHENOXYETHANOL (AND) DMDM HYDANTOIN (AND) TOCOPHERYL ACETATE.

**DESCRIPTION:** LIP-83 is composed of purified non-GMO soy phospholipids. These natural delivery systems encapsulate and transport Retinol, OMC (Ethylhexyl Methoxycinnamate) and Vitamin E to the target cells. Retinol can help visibly diminish the look of fine lines and wrinkles, increase the appearance of firmness, improve uneven skin tone, smooth and refine the surface of skin, and help mitigate the effects of environmental stressors. Ethylhexyl Methoxycinnamate (also called Octyl Methoxycinnamate) is an active ingredient in OTC sunscreen products. It is used in products that are applied to the skin to absorb, reflect or scatter UV rays; it protects the skin from sunburn and other damaging effects of the sun.

COMPOSITION (INCI NAME)	% (weight)	CAS #
Water (Aqua)	82.170	7732-18-5
Phospholipids	14.280	123465-35-0
Retinol	1.000	68-26-8 / 11103-57-4
Ethylhexyl Methoxycinnamate	1.000	5466-77-3
Tocopheryl Acetate	0.050	7695-91-2 / 58-95-7
<b>Preservatives:</b>		
Phenoxyethanol	0.750	122-99-6
DMDM Hydantoin	0.750	6440-58-0

<b>Particle size:</b>	110 – 500 nm.
<b>Manufacturing method:</b>	Microfluidization
<b>Net charge of the liposome:</b>	Negative
<b>Type of liposome:</b>	Oligo-unilamellar
<b>Color:</b>	Yellow to light orange
<b>Appearance:</b>	Semi-translucent to opalescent liquid. Absence of foreign matter.
<b>Odor:</b>	Mild, characteristic
<b>pH:</b>	5.00 – 6.50 (25°) (USP XXVII)
<b>Density:</b>	0.980 – 1.050 (pycnometer) (20°C) (USP XXVII)
<b>Dry Residue:</b>	30 gr.% minimum (0.5 gr. 1 hour 110° C)
<b>Retinol Analysis:</b>	1.00 ± 0.10 gr % (HPLC vs st: Sigma Aldrich) (33,500 UI/gr. ± 10%)
<b>Microbiological control:</b>	Mesophilic bacteria: less than 200 CFU/gr. Moulds & yeast: less than 20 CFU/gr. No pathogens.
<b>Important:</b>	When inside a formulation, as time goes by, Retinol is partially degraded into derivatives retinoids, which present similar cosmetic characteristics than Retinol itself.

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

**EXTERNAL COSMETIC USE**