NanoVec™

SPECIFICATIONS - TDS

RETINOL LIPOSOMES

CODE: LIPH-57 Date of last amendment: 15.12.2021

INCI name: WATER (AQUA) (AND) PHOSPHOLIPIDS (AND) RETINOL (AND) PHENOXYETHANOL (AND) CAPRYLYL GLYCOL (AND) TOCOPHEROL.

DESCRIPTION: LIPH-57 is composed of purified non-GMO soy phospholipids. These natural delivery systems encapsulate and transport Retinol 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.

COMPOSITION (INCI NAME)	CAS #	% (weight)
Water (Aqua)	7732-18-5	83.570
Phospholipids	123465-35-0	14.280
Retinol	68-26-8	1.000
Tocopherol	10191-41-0	0.050
Preservatives:		
Phenoxyethanol	122-99-6	0.900
Caprylyl Glycol	1117-86-8	0.200

Particle size:	110 – 500 nm
Manufacturing method:	Microfluidization
Net charge of the liposome:	Negative
Type of liposome:	Oligo-unilamellar
Color:	Yellow to orange
Appearance:	Semi translucent to opalescent liquid
Odor:	Mild, characteristic
pH:	5.00 – 7.00 (25ºC) (USP XXVII)
Density:	0.980 – 1.050 (pycnometer) (20ºC) (USP XXVII)
Dry residue:	30.0 gr % minimum (0.5 gr. 1 hour 110° C)
Retinol Analysis:	1.00 ± 0.10 gr % (HPLC vsst: Sigma Aldrich) (33,500 UI/gr. ± 10%)
Microbiological control:	Mesophilic bacteria: less than 200 CFU/gr. Moulds & yeast: less than 20 CFU/gr. No pathogens.
Important:	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