

## SEBUM-REGULATING NANOVECTOR PLUS

**CODE:** LIPCUAT-14 PLUS

Date of last amendment: 2.06.2023

**INCI name:** WATER (AQUA) (AND) PHOSPHOLIPIDS (AND) POLYQUATERNIUM 16 (AND) ROSMARINUS OFFICINALIS EXTRACT (AND) MENTHA PIPERITA OIL (AND) NIACINAMIDE (AND) PANTHENOL (AND) PHENOXYETHANOL (AND) CAFFEINE (AND) BIOTIN (AND) TOCOPHERYL ACETATE

**DESCRIPTION:** Nanodispersion of phospholipids from non-GMO soybean lecithin associated to a quaternary polymer that confers positive net charge and high substantivity, which encapsulate and transport Peppermint Essential Oil, Rosemary extract, Panthenol, Niacinamide, Caffeine, Biotin and Vitamin E.

**PROPERTIES:** Moisturizes, conditions and helps normalize sebaceous secretions. Presents antioxidant activity. Peppermint essential oil is bactericide and cooling. Niacinamide helps regulate sebaceous secretion and reduces inflammation. Caffeine activates lipid hydrolysis, which promotes sebum elimination. Biotin is a cofactor that assists many enzymes important to carboxylation and epidermal differentiation. It has been proved that it enhances hair density and activates hair growth. Biotin deficit is associated to different types of alopecia and seborrheic dermatitis. Rosemary extract is venotonic, sanitizer and antipruritic. It also has antioxidant and smoothing activity. Ideal for formulating anti-dandruff shampoos with ZPT or PTO and oily hair shampoo.

NAME OF INGREDIENT - INCI ADOPTED NAME	% (weight)	CAS #
Water (Aqua)	63.150	7732-18-5
Phospholipids	15.000	123465-35-0
Polyquaternium 16	10.000	95144-24-4
Rosmarinus Officinalis Extract	5.000	84604-14-8
Mentha Piperita Oil	2.000	8006-90-4 / 84082-70-2
Niacinamide	2.000	98-92-0
Panthenol	1.000	81-13-0 / 16485-10-2
Caffeine	0.500	58-08-2
Biotin	0.500	58-85-5
Tocopheryl Acetate	0.100	7695-91-2 / 58-95-7
<b>Preservatives:</b> Phenoxyethanol	0.750	122-99-6

<b>Particle size:</b>	110 – 300 nm. (DLS)
<b>Manufacturing method:</b>	Microfluidization
<b>Net charge of the liposome:</b>	Positive
<b>Color:</b>	Brown, may be greenish
<b>Appearance:</b>	Liquid to viscous fluid with a semi-translucent to opalescent appearance.
<b>Odor:</b>	Characteristic Menthol
<b>pH:</b>	4.50 – 6.00 (USP XXVII) (25° C)
<b>Density:</b>	1.000 g/ml ± 10% (USP XXVII) (20°C)
<b>Dry residue:</b>	22 gr.% min. (0.5 gr. 1 hour 110° C)
<b>Microbiological control:</b>	Mesophilic bacteria: less than 200 CFU/gr. Moulds & yeast: less than 20 CFU/gr. No pathogens.

**Keep in fresh place (5 - 25°C / 40 - 77°F). Do not freeze. Protect from light. As phases may separate, shake before use.**

**EXTERNAL COSMETIC USE**