

Nanovec™



SPECIFICATIONS TDS

TEA TREE OIL PHYTO-LIPOSOMES
(Antibacterial and Antioxidant)



COSMOS APPROVED



TEA TREE OIL PHYTO-LIPOSOMES (ANTIBACTERIAL AND ANTIOXIDANT)

CODE: ECOLIP-7

Last Revision: 11.07.2023

INCI name: WATER (AND) PHOSPHOLIPIDS (AND) TEA TREE OIL (MELALEUCA ALTERNIFOLIA LEAF OIL) (AND) SORBITAN CAPRYLATE (AND) PROPANEDIOL (AND) BENZOIC ACID (AND) TOCOPHEROL

DESCRIPTION

Dispersion in aqueous medium of Phyto-Liposomes composed of phospholipids purified from soybean lecithin (non-GMO) that encapsulate and transport Tea Tree Oil with antibacterial action and Vitamin E as a lipophilic antioxidant. Phyto-liposomes penetrate deeper into the skin, improving the bioavailability of its active ingredients.

BENEFITS

Antibacterial

Antifungal

Anti-inflammatory

Antioxidant

COMPOSITION (INCI NAME)	CAS #	% (weight)
Water	83,460	7732-18-5
Phospholipids	10,000	123465-35-0
Tea Tree Oil (Melaleuca Alternifolia leaf oil)	5,000	85085-48-9 / 8022-72-8 / 68647-
Tocopherol	0,040	73-4 59-02-9
Preservatives:		
Sorbitan Caprylate	0,975	60177-36-8
Propanediol	0,300	504-63-2 / 26264-14-2
Benzoic Acid	0,225	65-85-0
Particle size:	100 – 500 nm (Dynamic Laser Scattering – DLS)	
Manufacturing method:	Microfluidization	
Net charge of the liposome:	Negative	
Type of liposome:	Oligo-unilamellar	



Color:	White to yellowish
Appearance:	Opalescent liquid. Absence of foreign matter
Odor:	Characteristic, mild
pH:	4,50 – 6,00 (25°C) (USP XXVII)
Density:	0,980 - 1,050 (pycnometer) (20°C) (USP XXVII)
Dry residue:	8,00 gr % minimum (0.5 gr. 1 hour 110° C)
Microbiological control:	Mesophilic aerobes: less than 100 CFU/gr. Moulds & yeast: less than 20 CFU/gr. No pathogens.
Dosage:	1 - 10%
Solubility:	Miscible with water
Application:	Tea tree oil is distilled from the leaves of the Melaleuca Alternifolia plant, found in Australia. The oil possesses antibacterial, anti-inflammatory, antiviral, and antifungal properties. Ideal for treating acne, athlete's foot, contact dermatitis or head lice using tea tree oil.
Storage:	Keep refrigerated (5 - 15° C), in well-closed containers, protected from light. Shake well before use. Under these conditions, the shelf life of Nanovec liposomes is 2 years.
Packing size:	1 kg, 5 kg, 10 kg, 60 kg Sample size: 50 g

EXTERNAL COSMETIC USE

