# Mane/ec



**CAFFEINE LIPOSOMES** 





## Van Specifications TDS



### **CAFFEINE LIPOSOMES**

CODE: ECOLIP-5 Last Revision: 11.07.2023

INCI name: WATER (AQUA) (AND) PHOSPHOLIPIDS (from soybean lecithin) (AND) ALCOHOL (AND) CAMELLIA SINENSIS LEAF EXTRACT (AND) SODIUM BENZOATE (AND) POTASSIUM PHOSPHATE (AND) TOCOPHEROL

#### DESCRIPTION

Promotes hair growth

ECOLIP-5 consists of liposomes (natural delivery systems) made from soybean phospholipids, which encapsulate and transport natural Caffeine (Thein® MM) to the

This ECOCERT certified Caffeine derives from Camellia sinensis (tea) leaves.

Caffeine, found in coffee berries (coffea arabica and coffea robusta), tea leaves (camellia sinensis), mate leaves (ilex paraguayensis) and guarana berries (paullinia cupana), among other plants, is the most widely established natural lipolytic chemical, and also enhances blood circulation (caffeine enhances the lipolytic process and boosts circulation via phosphodiesterase and adenosine inhibition on fat cells and blood vessels).

This alkaloid stimulates the degradation of fats during lipolysis through inhibition of the phosphodiesterase activity. Caffeine has potent antioxidant properties. Moreover, caffeine contained in cosmetics increases the microcirculation of blood in the skin and also stimulates the growth of hair through inhibition of the 5-areductase activity.

Caffeine is an anti-adipogenic bioactive compound involved in the modulation of mitotic clonal expansion during adipocyte differentiation through the AKT/GSK3 pathway.



## **BENEFITS** Inhibits adipogenesis Stimulates the elimination of fats and toxins Helps to improve the appearance of cellulite Activates blood circulation Antioxidant



# Van Vec™ Specifications TDS



COMPOSITION (INCI NAME)		CAS#	% (weight)
Water (Aqua) Phospholipids (from soybean lecithin) Alcohol Thein® MM – Natural Anhydrous caffeine extracted from tea leaves Sodium Benzoate Potassium Phosphate Tocopherol		7732-18-5 8030-76-0 64-17-5 84650-60-2 532-32-1 7778-77-0 59-02-9	82.550 12.000 3.000 1.000 1.000 0.350 0.100
Particle size:	100 – 300 nm (Dynamic Laser Scattering – DLS)		
Manufacturing method:	Microfluidization.		
Net charge of the liposome:	Negative.		
Type of liposome:	Oligo-unilamellar.		
Color:	Amber.		
Appearance:	Semi-translucent to opalescent liquid. Absence of foreign matter.		
Odor:	Mild, slightly ethanolic.		
pH:	4,75 – 6,00 (25°C) (USP XXVII)		
Density:	0,980 - 1,050 (pycnometer) (20°C) (USP XXVII)		
Dry residue:	14,0 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:	ECOLIP-5 is recommended for in anti-cellulite, slimming, leg wellness, contouring and under-eye creams		
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**







