NanoVec™

SPECIFICATIONS TDS

RESVERATROL PHYTO-LIPOSOMES
(Antioxidant)

Approved by ECOCERT RAW MATERIAL

COSMOS APPROVED

NanoVec™ SPECIFICATIONS TDS

Approved by ECOCERT RAW MATERIAL COSMOS APPROVED

RESVERATROL PHYTO-LIPOSOMES

CODE: ECOLIP-9 Last Revision: 11.07.2023

INCI name: WATER (AQUA) (AND) ALCOHOL (AND) HYDROGENATED LECITHIN (AND) RESVERATROL (AND) TOCOPHEROL (AND) SORBITAN CAPRYLATE (AND) PROPANEDIOL (AND) BENZOIC ACID.

DESCRIPTION

ECOLIP-9 consists of liposomes (natural delivery systems) made from vegetable phospholipids, which encapsulate and transport Resveratrol to the target cells.

Resveratrol, an antioxidant polyphenol from red wine, has been the subject of intense interest in recent years due to a range of unique anti-aging properties.

Resveratrol (3,5,4'-trihydroxystilbene) is a naturally occurring molecule found in high concentrations in many red wines and is a member of a family of compounds known as wine polyphenols, which also includes flavonoids. Other sources of resveratrol include some colored berries and the nonedible parts of the peanut plant, as well as dark chocolate.

Resveratrol has been reported to be a strong inhibitor of NADPH- and adenosine 5'-diphosphate (ADP)-Fe+-lipid peroxidation and ultraviolet (UV) light–induced lipid peroxidation, and an efficient scavenger of 2,2'-azobis-(2-amidinopropane)-dihydrochloride peroxyl radicals. Resveratrol can form soluble, complex molecules with certain metal ions, inactivating them so they cannot produce free radical formation

Resveratrol has an affinity for the estrogen protein receptors (both ERα and ERβ), thereby contributing to the stimulation of collagen types I and II production.

BENEFITS

- Extremely effective in combating the damaging effect of free radicals that leads to skin aging
- Proficient at preventing lipid peroxidation
- Stimulates collagen production
- Protects against damage caused by ultraviolet radiation
- Powerful anti-inflammatory
- Stimulates healthy cell proliferation
- Improves the overall appearance of skin

NanoVec™ SPECIFICATIONS TDS

Approved by ECOCERT RAW MATERIAL COSMOS APPROVED

COMPOSITION (INCI NAME)	CAS #	% (weight)
Water (aqua)	7732-18-5	82.950
Alcohol	64-17-5	10.000
Hydrogenated Lecithin	92128-87-5	5.000
Resveratrol	501-36-0	0.500
Tocopherol	59-02-9	0.050
Preservatives:		
Sorbitan Caprylate	60177-36-8	0.975
Propanediol	504-63-2	0.300
Benzoic Acid	65-85-0	0.225

Particle size:	110 – 600 nm (Dynamic Laser Scattering – DLS)
Manufacturing method:	Microfluidization
Net charge of the liposome:	Negative
Type of liposome:	Oligo-unilamellar
Color:	White to Yellow
Appearance:	Milky liquid. Absence of foreign matter
Odor:	Mild
pH:	4.50 – 6.00 (25ºC) (USP XXVII)
Density:	0.950 – 1.050 (pycnometer) (20ºC) (USP XXVII)
Dry residue:	6 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-9 is recommended for anti-age and antioxidant cosmetic products. Phytoliposomes penetrate deeper into the skin, improving the bioavailability of its active ingredients.
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

NanoVec™

SPECIFICATIONS TDS

Approved by ECOCERT RAW MATERIAL
COSMOS APPROVED

ISO 9001 BUREAU VERITAS Certification

GMP GOOD MANUFACTURING PRACTICE CERTIFIED

NOT TESTED ON ANIMALS

ISO 9001 BUREAU VERITAS Certification