

Nanovec™



SPECIFICATIONS TDS

RESVERATROL LIPOSOMES



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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 peroxy 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 ER α and ER β), 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

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 (25°C) (USP XXVII)		
Density:	0.950 – 1.050 (pycnometer) (20°C) (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		
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

