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## Certificate of Analysis Sheet

# Organic Pistachio Kernel Oil

(*Pistacia vera*)

Pistachio seed oil is the fixed oil obtained from the nuts of the Pistachio, *Pistacia vera* L., Anacardiaceae

Product description		
Product name	Organic pistachio seed oil, cold pressed	
Batch number:	010524-2	
Latin name	<i>Pistacia vera</i> (L.), Anacardiaceae	
INCI (EU)	PISTACIA VERA SEED OIL	
CAS Registry Number (EU)	90082-81-8	
EC# (EINECS/ ELINCS)	290-173-0	
Customs tariff number	1515 90 59	
Functions as cosmetic product	Skin conditioning	
Physicochemical characteristics		
Parameter	Method	Range
Density	20 °C, DGF C-IV 2d	0,924 g/ml
Refractive index	20 °C, DGF C-IV 5, Refractometry	1,4670
Acid value	DGF C-V 2, Titration	≤ 4,0 mg KOH/g (KOH = NaOH)
Free fatty acids (FFA)	Calculated in oleic acid (DGF C-V 2)	2,02 %
Saponification value	DFG C-V 3	191,5 mg KOH/g (KOH =NaOH)
Iodine alue	DGF-C-V 11d, Wijs	92 g I2/100g Not drying
Peroxide value	DFG C-VI 6a	≤ 10,0 meq O2/kg oil
Extractant	-	(mechanical pressing)

The product will have under suitable storage conditions an acid value approx ≤ 4.0 mg KOH / g, a peroxide value ≤ 10.0 meq O2 / kg oil and free fatty acids ≤ 2.02 %.

Fatty Acids composition			
According to DGF C-VI 10a			
Name	Family	Symbol 1	%*
Palmitic acid	Saturated	16:0	8,5
Stearic acid	Saturated	18:0	2,4
Pamitoleic acid	Omega-7, mono unsaturated	18:1	0,6
Oleic acid	Omega-7, mono unsaturated	18:1	68,0
Linoleic	Omega-6, poly unsaturated	18:2	17,3

Further ingredients	mg/kg (ppm)
Sterols	
Tocopherols	
Vitamin E, active	

Sterols	mg/kg (ppm)
Beta-sitosterol	83,3
Campesterol	5,6
Delta-5-avenasterol	6,1
Delta-7-stigmasterol	0,8
Stigmasterol	1,1
Vitamin E/ Tocopherols	mg/kg (ppm)
Vitamin E, active	117
Alpha-Tocopherol ( $\alpha$ )	84
Beta-Tocopherol ( $\beta$ )	-
Gamma-Tocopherol ( $\gamma$ )	132
Delta-Tocopherol ( $\delta$ )	-

#### Allergen status

According to the REGULATION (EU) No 1169/2011 of 2011-October-25, Annex II, in this regard the oil contains the following allergens subject to labeling: **none**

#### Allergen status (if cosmetic product)

The oil does not contain substances listed in Annex II to VI of REGULATION (EC) No 1223/2009 of 2009- November-30 as ingredients. Contaminations with forbidden/restricted substances are not expected but not analysed.