

Organic prickly pear seed oil oil

Opuntia ficus-indica L. - Mexico

Organic product certified by ABCert

Description:

Latin name:	Opuntia ficus-indica (L.) Mill., Cactaceae
Shades:	This analysis report is also valid for: Deodorized/ Conventional
INC (EU)/ botanical name:	OPUNTIA FICUS-INDICA SEED OIL
CAS Registry Number EU):	90082-21-6
EC# (EINECS/ ELINCS):	290-109-1
Functions as cosmetic product:	Emollient
CPNP reference:	1454194
Origin:	Mexico
Customs tariff number:	1515 90 59
Spreading behaviour:	Medium

Physicochemical characteristics:

Parameter	Method	Range & unit
Unsaponifiable fraction	DGF: C-III 1b	1,8 %
Density	20 °C DGF C-IV 2	0,919 g/ml
Refractive index	20 °C DGF C-IV 5	1,4742
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	DGF C-V 3	193 mg KOH/g (KOH = NaOH)
Iodine value	DGF-C-V 11d, Wijs	115 g I ₂ /100g Semi-drying
Peroxide value	DGF C-VI 6a	≤ 10,0* meq O ₂ /kg oil
Anisidine value	DGF-C-VI 6e	< 10
Totox value (= Anisidine + 2 x Peroxide value)		≤ 20,0 meq O ₂ /kg oil
Extractant	-	- (mechanical pressing)

* The acid value, peroxide value and free fatty acids increase steadily during storage. However the product will have under suitable storage conditions at the end of the best before date an acid value ≤ 4.0 mg KOH / g, a peroxide value ≤ 15.0 meq O₂ / kg oil and free fatty acids ≤ 2.02 %.



Maitreya Natura

Fatty Acids composition

According to ISO 12966 mod.,GC/FID

Name	Family	Symbol*	%**
Palmitic acid	Saturated	16:0	11,3
Stearic acid	Saturated	18:0	3,2
Oleic acid	Omega-9, mono unsaturated	18:1	16,8
Vaccinic acid (Octadec-11-enoic acid)	Omega-7, mono unsaturated	18:1	3,8
Linoleic acid	Omega-6, poly unsaturated	18:2	62,5

* Number of carbon atoms and of double bonds

Further ingredients (Unsaponifiable fraction)	mg/kg (ppm) *	Sterols	% *
Beta-Carotene (Provitamin A)	47	Cholesterol (Cholesterin)	1,1
Fatty alcohols		Campesterol	9,8
Sterols	15000	Stigmasterol	1,4
Tocopherols	542	Beta-Sitosterol	72
Triterpene alcohols		Delta-7-Stigmasterol	1,2
Vitamin E, active	340	Delta-5-Stigmasterol	4,5
Vitamin K1		Delta-7-Avenasterol	2,2

According to EU Health Claims Regulation No. 1024/2006 it is principally not permitted to use the term "Free from Cholesterol" on any product packaging, even in case that the oil not contain more than 5 mg Cholesterol per 100 g.

Vitamin E/ Tocopherols according to ASU L 13.00-30, mod., HPLC/FI	mg/kg (ppm) *
Vitamin E, active **	340
Alpha-Tocopherol (α)	259
Beta-Tocopherol (β)	40
Gamma-Tocopherol (γ)	243
Delta-Tocopherol (δ)	-

** Calculated from the tocopherols.

* The given values are to be considered as approximate average values, which are based on scientific references and/or analysis/ Les valeurs mentionnées sont à considérer comme des valeurs moyennes approximatives, calculées sur la base des Références scientifiques et/ou analyses.

Maitreya Natura GmbH Srl

Vilpianerstraße 30 Via Vilpiano | 39010 Nals Nalles

Tel. +39 0471677733 | Fax +39 0471678128 | www.maitreya-natura.com | info@maitreya-natura.com

MwSt. Nr. / P.I. 02932590215



Maitreya Natura

Allergen status (if Food grade):

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

Important information:

The specifications and the Material Safety Data Sheet the oil have to be observed.

Due to this analysis report all former versions become invalid. All the values underlie natural fluctuations.

This analysis report was provided to the best of our knowledge and belief. It serves information purposes only. A legally binding assurance of certain characteristics or of the appropriateness in a specific context of usage cannot be derived from our analysis report. The Analysis report is only binding, when explicitly agreed upon in written form. Hence, all values have to be validated by the customer himself and do not release him from his quality responsibility and duty to take care when processing our oil.

Maitreya Natura GmbH Srl

Vilpianerstraße 30 Via Vilpiano | 39010 Nals Nalles

Tel. +39 0471677733 | Fax +39 0471678128 | www.maitreya-natura.com | info@maitreya-natura.com

MwSt. Nr. / P.I. 02932590215