

## CERTIFICATE OF ANALYSIS

### IFRA Standards – 50<sup>th</sup> Amendment

PRODUCT NAME: PRICKLY PEAR SEED OIL

DATE: 26/06/2023

Name of Ingredient	CAS Number	Standard
Acetic acid, anhydride, reaction products with 1,5,10-Trimethyl-1,5,9-cyclododecatriene	144020-22-4 28371-99-5	NOT DETECTED
Acetylated Vetiver oil	84082-84-8 68917-34-0 73246-97-6 62563-80-8	NOT DETECTED
Acetyl ethyl tetramethyl tetralin (AETT)	88-29-9	NOT DETECTED
Acetyl hexamethyl indan (AHMI)	15323-35-0	NOT DETECTED
Acetyl isovaleryl	13706-86-0	NOT DETECTED
Alantroot oil	84012-20-4 97676-35-2	NOT DETECTED
Allyl esters	Not applicable.	NOT DETECTED
Allyl heptene carbonate	73157-43-4	NOT DETECTED
Allyl isothiocyanate	57-06-7	NOT DETECTED
Allyl phenoxyacetate	7493-74-5 863306-60-9	NOT DETECTED
$\alpha$ -Amyl cinnamic alcohol	101-85-9	NOT DETECTED
$\alpha$ -Amyl cinnamic aldehyde	122-40-7	NOT DETECTED
Amylcyclopentenone	25564-22-1	NOT DETECTED
Angelica root oil	8015-64-3 84775-41-7	NOT DETECTED
Anisyl alcohol	105-13-5 1331-81-3	NOT DETECTED
Anisylidene acetone	943-88-4	NOT DETECTED
cis-and trans-Asarone	494-40-6 2883-98-9 5273-86-9	NOT DETECTED
Benzaldehyde	100-52-7	NOT DETECTED
Benzene	71-43-2	NOT DETECTED
Benzyl alcohol	100-51-6	NOT DETECTED



Name of Ingredient	CAS Number	Standard
Benzyl benzoate	120-51-4	NOT DETECTED
Benzyl cinnamate	103-41-3	NOT DETECTED
Benzyl cyanide	140-29-4	NOT DETECTED
Benzyl salicylate	118-58-1	NOT DETECTED
Benzylidene acetone	122-57-6	NOT DETECTED
Bergamot oil expressed	8007-75-8 89957-91-5	NOT DETECTED
Birch wood pyrolysate	8001-88-5 68917-50-0 84012-15-7 85251-66-7 85940-29-0 91745-85-6	NOT DETECTED
$\alpha$ -Bisabolol	515-69-5 23089-26-1 23178-88-3 78148-59-1 76738-75-5 72691-24-8	NOT DETECTED
Bitter orange peel oil expressed	68916-04-1 72968-50-4	NOT DETECTED
Boldo oil	8022-81-9 84649-96-7	NOT DETECTED
Bromostyrene	103-64-0	NOT DETECTED
3-Bromo-1,7,7-trimethylbicyclo[2.2.1]heptane-2-one	76-29-9	NOT DETECTED
$\alpha$ -Butylcinnamaldehyde	7492-44-6	NOT DETECTED
p-tert-Butylidihydrocinnamaldehyde	18127-01-0	NOT DETECTED
p-tert-Butyl- $\alpha$ -methylhydrocinnamic aldehyde (p-BMHCA)	80-54-6	NOT DETECTED
p-tert-Butylphenol	98-54-4	NOT DETECTED
3-(m-tert-Butylphenyl)-2-methylpropionaldehyde (m-BMHCA)	62518-65-4	NOT DETECTED
Cade oil	8013-10-3 90046-02-9	NOT DETECTED
Carvone	99-49-0 2244-16-8 6485-40-1	NOT DETECTED
Carvone oxide	33204-74-9	NOT DETECTED
Cedrene	11028-42-5 469-61-4 546-28-1	NOT DETECTED
Chenopodium oil	8006-99-3 8024-11-1 89997-47-7	NOT DETECTED
Cinnamic alcohol	104-54-1	NOT DETECTED
Cinnamic aldehyde	104-55-2	NOT DETECTED
Cinnamic aldehyde dimethyl acetal	4364-06-1	NOT DETECTED

Name of Ingredient	CAS Number	Standard
Cinnamylidene acetone	4173-44-8	NOT DETECTED
Cinnamyl nitrile	1885-38-7 4360-47-8	NOT DETECTED
Citral	5392-40-5 141-27-5 106-26-3	NOT DETECTED
Citronellal	106-23-0 5949-05-3	NOT DETECTED
Citronellol	106-22-9 1117-61-9 26489-01-0 6812-78-8 141-25-3 7540-51-4	NOT DETECTED
Citrus oils and other furocoumarins containing essential oils	Not applicable.	NOT DETECTED
Colophony	8050-09-7	NOT DETECTED
Costus root oil, absolute and concrete	8023-88-9 90106-55-1	NOT DETECTED
Coumarin	91-64-5	NOT DETECTED
Cumin oil	8014-13-9 84775-51-9	NOT DETECTED
Cuminaldehyde	122-03-2	NOT DETECTED
Cyclamen alcohol	4756-19-8	NOT DETECTED
Cyclamen aldehyde	103-95-7	NOT DETECTED
Cyclohexanemethanol, 2,4-dimethyl-	68480-15-9	NOT DETECTED
Cyclopentadecanolide	106-02-5	NOT DETECTED
Dibenzyl ether	103-50-4	NOT DETECTED
2,2-Dichloro-1-methylcyclopropylbenzene	3591-42-2	NOT DETECTED
2,4-Dienals	764-40-9 142-83-6 80466-34-8 5910-85-0 30361-28-5 6750-03-4 2363-88-4 13162-46-4 21662-16-8 25152-84-5 30361-29-6 4313-03-5 20432-40-0 4488-48-6 5577-44-6 5910-87-2	NOT DETECTED
Diethyl maleate	141-05-9	NOT DETECTED
Dihydrocoumarin	119-84-6	NOT DETECTED
2,4-Dihydroxy-3-methylbenzaldehyde	6248-20-0	NOT DETECTED

Name of Ingredient	CAS Number	Standard
Fig leaf absolute	68916-52-9 90028-74-3	NOT DETECTED
Furfural	98-01-1	NOT DETECTED
Furfuryl alcohol	98-00-0	NOT DETECTED
Furfurylidene acetone	623-15-4	NOT DETECTED
Geraniol	106-24-1	NOT DETECTED
Geranyl nitrile	5146-66-7 5585-39-7 31983-27-4	NOT DETECTED
Grapefruit oil expressed	8016-20-4 90045-43-5	NOT DETECTED
trans-2-Heptenal	18829-55-5	NOT DETECTED
2-Heptylidene cyclopentan-1-one	39189-74-7	NOT DETECTED
2,4-Hexadien-1-ol	111-28-4 17102-64-6	NOT DETECTED
Hexahydrocoumarin	700-82-3	NOT DETECTED
trans-2-Hexenal	6728-26-3	NOT DETECTED
trans-2-Hexenal diethyl acetal	67746-30-9	NOT DETECTED
trans-2-Hexenal dimethyl acetal	18318-83-7	NOT DETECTED
$\alpha$ -Hexyl cinnamic aldehyde	101-86-0	NOT DETECTED
Hexyl salicylate	6259-76-3	NOT DETECTED
$\alpha$ -Hexylidene cyclopentanone	17373-89-6	NOT DETECTED
Hydroabietyl alcohol, Dihydroabietyl alcohol	13393-93-6 26266-77-3 1333-89-7	NOT DETECTED
Hydroquinone monoethyl ether	622-62-8	NOT DETECTED
Hydroquinone monomethyl ether	150-76-5	NOT DETECTED
4-Hydroxy-2,5-dimethyl-3(2H)-furanone	3658-77-3	NOT DETECTED
3 and 4-(4-Hydroxy-4-methylpentyl)-3-cyclohexene-1-carboxaldehyde (HMPCC)	31906-04-4 51414-25-6	NOT DETECTED
Hydroxycitronellal	107-75-5	NOT DETECTED
4-(4-Hydroxyphenyl)butan-2-one	5471-51-2	NOT DETECTED
Isobutyl N-methylantranilate	65505-24-0	NOT DETECTED
p-Isobutyl- $\alpha$ -methyl hydrocinnamaldehyde	6658-48-6	NOT DETECTED
Isocyclocitral	1335-66-6 1423-46-7 67634-07-5	NOT DETECTED
Isocyclogeraniol	68527-77-5	NOT DETECTED
Isoeugenol	97-54-1 5932-68-3	NOT DETECTED
Isophorone	78-59-1	NOT DETECTED

Name of Ingredient	CAS Number	Standard
p-Isopropylbenzyl alcohol	536-60-7	NOT DETECTED
6-Isopropyl-2-decalol	34131-99-2	NOT DETECTED
cis,trans-4-(Isopropyl) cyclo hexane methanol	5502-75-0	NOT DETECTED
	13828-37-0	
	13674-19-6	
4-(Isopropyl)-.β.-methylcyclohexanethanol	67634-03-1	NOT DETECTED
Jasmine absolute (grandiflorum)	8022-96-6	NOT DETECTED
	8024-43-9	
	90045-94-6	
	84776-64-7	
Jasmine absolute (sambac)	91770-14-8 1034798-23-6	NOT DETECTED
Lemon oil cold pressed	8008-56-8 84929-31-7	NOT DETECTED
Lime oil expressed	8008-26-2 90063-52-8	NOT DETECTED
Limonene	138-86-3	NOT DETECTED
	7705-14-8	
	5989-27-5	
	5989-54-8	
Linalool	78-70-6	NOT DETECTED
	126-90-9	
	126-91-0	
Longifolene	475-20-7	NOT DETECTED
	16846-09-6	
	19067-29-9	
Massoia bark oil	85085-26-3	NOT DETECTED
Massoia lactone	54814-64-1	NOT DETECTED
	51154-96-2	
Melissa oil (genuine Melissa officinalis L.)	8014-71-9	NOT DETECTED
	84082-61-1	
Menthadiene-7-methyl formate	68683-20-5	NOT DETECTED
p-Methoxybenzaldehyde	123-11-5	NOT DETECTED
o-Methoxycinnamaldehyde	1504-74-1	NOT DETECTED
7-Methoxycoumarin	531-59-9	NOT DETECTED
Methoxy dicyclopentadiene carboxaldehyde	86803-90-9	NOT DETECTED
4-Methoxy-α-methylbenzenepropanal	5462-06-6	NOT DETECTED
2-Methoxy-4-methylphenol	93-51-6	NOT DETECTED
2-Methoxy-4-propylphenol	2785-87-7	NOT DETECTED
α-Methyl anisylidene acetone	104-27-8	NOT DETECTED
α-Methyl-1,3-benzodioxole-5-propionaldehyde (MMDHCA)	1205-17-0	NOT DETECTED
α-Methyl cinnamic aldehyde	101-39-3	NOT DETECTED
6-Methylcoumarin	92-48-8	NOT DETECTED
7-Methylcoumarin	2445-83-2	NOT DETECTED
Methyl crotonate	623-43-8	NOT DETECTED

**\*SPECIFICATIONS OF PRICKLY PEAR SEED OIL\***

DATED: -18.01.2022

PRODUCT NAME : PRICKLY PEAR SEED OIL  
BOTANICAL NAME : (INDIAN FIG OPUNITA)  
GEOGRAPHICAL : INDIA  
ORIGIN MODE OF : COLD PRESSED  
EXTRACTION  
DISTILLED OR : SEED  
EXPRESSED ORGAN

**\*SPECIFICATIONS OF PHYSICAL PARAMETERS\***

PRODUCT/STANDARD : PRICKLY PEAR SEED OIL  
ODOUR : LIGHT YELLOW LIQUID  
ACID VALUE : CHARACTERISTIC ODOUR  
REF. INDEX : 0 TO 15  
SP.GRAVITY : 1.4540 TO 1.4960  
SHELF LIFE : 0.8920 TO 0.9380  
SOLUBILITY : 02 YEARS FROM THE DATE OF MFG.  
STABILITY : SOLUBLE IN OIL, INSOLUBLE IN WATER  
REACTIVITY : STABLE UNDER NORMAL CONDITIONS  
STORAGE INSTRUCTIONS : AVOID OXIDIZING MATERIALS  
: SHOULD BE STORED BELOW 20°C IN COOL, DRY,  
WELL VENTILATED PLACE IN FULLY & TIGHTLY  
SEALED CONTAINERS. PROTECTED FROM LIGHT &  
KEEP AWAY FROM ANY SOURCE OF IGNITION/FIRE.

**NON-GMO CERTIFICATE**

To the best of our knowledge, the products listed below are not derived from Genetically Modified starting Raw materials or additives that are derived from Genetically Modified Organism and do not contain detectable of Genetically Modified material (known as PCR negative). It is our understanding the EU labeling requirements are based on the presence of detectable level of transgenic material based on this, the products will not on it shown, require the labeling of these food stuffs and food ingredients as indicated in IEC.NO.: 0690001118 & FDA.REG.NO. 14936438988 on the authorization, labeling and trace availability ability of Genetically Modified Organism in Food and Feed.

PRODUCT NAME: PRICKLY PEAR



**\*Analyse Certificate\***

<b>PRODUCT NAME</b>	<b>PRICKLY PEAR SEED OIL</b>
<b>BOTANICAL NAME</b>	<b>(OPUNTIA FICUS-INDICA)</b>
<b>GEOGRAPHICAL ORIGIN</b>	<b>INDIA</b>
<b>MODE OF EXTRACTION</b>	<b>COLD PRESSED</b>
<b>ORGAN</b>	<b>SEED</b>
<b>BATCH NO.</b>	<b>4531511</b>
<b>BEST BEFORE END</b>	<b>JANUARY 2026</b>

**ANALYSE PHYSICAL**  
**PARAMETERS**

<b>PRODUCT/STANDARD</b>	<b>: PRICKLY PEAR SEED OIL</b>
<b>DESCRIPTION</b>	<b>: SLIGHTLY YELLOW LIQUID</b>
<b>ODOUR</b>	<b>: CHARACTERISTIC ODOUR</b>
<b>ACID VALUE</b>	<b>: 0.30</b>
<b>REF.INDEX</b>	<b>: 1.4733</b>
<b>SP.GRAVITY</b>	<b>: 0.9160</b>
<b>SOLUBILITY</b>	<b>: SOLUBLE IN OIL, INSOLUBLE IN WATER</b>
<b>STABILITY</b>	<b>: STABLE UNDER NORMAL CONDITIONS</b>
<b>REACTIVITY</b>	<b>: AVOID OXIDIZING MATERIALS</b>
<b>STORAGE INSTRUCTIONS</b>	<b>: SHOULD BE STORED BELOW 20<sup>0</sup>C IN COOL, DRY, WELL VENTILATED PLACE IN FULLY &amp; TIGHTLY SEALED CONTAINERS, PROTECTED FROM LIGHT &amp; KEEP AWAY FROM ANY SOURCE OF IGNITION/FIRE.</b>

Vystavil: Andrej Valentovič , ALTEVITA s.r.o.,  
Dňa : 20.03.2024

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