



Healing Body, Mind, and Spirit
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Certificate of Analysis

Evening Primrose Seed CO₂ Extract *Oenothera biennis*

Batch # GE-561209

Organically grown in China, CO₂ extracted in Germany

Lab No: 21691
Type No : 069.002
Raw Material: *Oenothera biennis* – Seeds, dried
Country of Origin raw material: China
D/E – ratio: 4.5-5.3 kg raw material yields 1 kg product
Product contains: Rosemary Antioxidant Extract (organic) 0.1%
Production: October 2016
Retest: October 2018
Storage: Store in a cool, dry place and exclusion of light

Sensory Check

Feature	Reference	Result
Appearance:	yellow-green oil	meets
Odour	Characteristic smell	meets

Analytical Check

Feature	Method	Limits	Value	Unit
Fatty acid composition:				
Palmitic Acid C16:0.	21.156.03, GCFID	4-10	6,1	%
Palmitoleic Acid C16:1 w7.	21.156.03, GCFID	n.s.	0,05	%
Stearic Acid C18:0.	21.156.03, GCFID	<4	1,9	%
Oleic Acid C18:1 w9	21.156.03, GCFID	4-12	7,1	%
Vaccenic Acid C18:1 w7.	21.156.03, GCFID	n.s.	0,38	%
Linoleic Acid C18:2 w6	21.156.03, GCFID	65-80	74,5	%
gamma Linolenic Acid C18:3 w6	21.156.03, GCFID	8 - 13	9,7	%
alpha Linolenic acid C18:3 w3	21.156.02, GCFID	n.s.	0,19	%
Arachidic Acid C20:0	21.156.03, GCFID	n.s.	0,21	%
Fat numbers:				%
Unsaponifiables	21.020.03, DGF	0,5 - 4	3,5	%
Peroxide Value	21.015.03, DGF, Wheeler	< 15	5,5	meq O2/kg



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Acid value	21.016.03, DGF	< 12	6,4	mg KOH/g
Saponification value	21.017.02, DGF	170 - 210	193	mg KOH/g
Ester value	= SV - AV	170 - 210	186	mg KOH/g
Campesterol	21.132.02, GCFID	n.s.	n.d.	%
Stigmasterol	21.132.02, GCFID	n.s.	0,04	%
Sitosterol	21.132.02, GCFID	n.s.	0,66	%
Sum of Sterols (calc. as Sitosterol)	21.132.02, GCFID	n.s.	0,94	%
Sum of Tocopherols (calc. as alpha Tocopherol)	21.113.02, HPLC	n.s.	0,03	%
Refractive index (20°C)	21.080.03, Abbe-Refractometer	1,4760 - 1,4810	1,4792	%
Density (20°C)	21.024.03, Pycnometer	0,910 - 0,940	0,9257	g/cm ³
Content of water	21.220.01, Karl Fischer method	n.s.	0,22	%

n.s. = not specified n.d. = not detected

The data in this report of analysis have been determined carefully and to the best of our knowledge. Depending on transport and storage conditions the indicated data can be subject to certain changes which are outside of our influence. Hence the report has not the meaning of a guarantee in the legal sense and does not dispense the customer from making his own quality control before using the product.

The product meets specifications no. 16.185.01/66.211.03; date of analysis: 2016.10.28