



Healing Body, Mind, and Spirit  
with Pure Essential Oils Since 1995

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**Certificate of Analysis:** Borage Seed CO<sub>2</sub> Total, *Borago officinalis*, organically grown seeds, CO<sub>2</sub> extracted in Germany.

Batch No: GE-771008

Lab No: 22348

Type No: 070.002 / DE-ÖKO-013

D/E - ratio: 3,1–3,5 kg raw material which yields 1 kg product

Product contains: 0,1% Rosemary Antioxidant Extract (organic)

Production: February 2017

Retest: February 2019

Storage: Store in a cool, dry place and exclusion of light.

#### Sensory Check

Feature	Reference	Result
Appearance	Clear, yellow oil	meets

#### Analytical Check

Feature	Method	Limits	Value/Unit
Fatty acid composition:			
Palmitic Acid C16:0	21.156.03, GCFID	10 - 15	11,2 %
Palmitoleic Acid C16:1 w7	21.156.03, GCFID	n.s.	0,14 %
Stearic Acid C18:0	21.156.03, GCFID	n.s.	5,2 %
Oleic Acid C18:1 w9	21.156.03, GCFID	n.s.	20,2 %
Vaccenic Acid C18:1 w7 2	1.156.03, GCFID	n.s.	0,46 %
Linoleic Acid C18:2 w6	21.156.03, GCFID	35 - 45	37,6 %
gamma Linolenic Acid C18:3 w6	21.156.03, GCFID	20 - 26	20,6 %
alpha Linolenic acid C18:3 w3	21.156.03, GCFID	n.s.	0,20 %
Arachidic Acid C20:0	21.156.03, GCFID	n.s.	0,38 %
Gadoleic Acid C20:1 w9	21.156.03, GCFID	n.s.	4,2 %
Behenic Acid C22:0	21.156.03, GCFID	n.s.	n.d. %
Erucic Acid C22:1 w9	21.156.03, GCFID	< 5	0,12 %
Nervonic Acid C24:1 w9	21.156.03, GCFID	n.s.	0,11 %
Fat numbers:			
Unsaponifiables	21.020.03, DGF	< 4	3,4 %
Peroxide Value	21.015.03, DGF, Wheeler	< 15	11,4 meq O <sub>2</sub> /kg
Acid value	21.016.03, DGF	5 - 10	8,2 mg KOH/g
Saponification value	21.017.02, DGF	160 - 210	198 mg KOH/g
Ester value	= SV - AV	150 - 200	92 mg KOH/g
Sum of all Pyrrolizidin alkaloides	external analysis < 50	32 ppb	
Content of water	21.220.01, Karl Fischer method	< 0,5	0,20 %
Refractive index (20°C)	21.080.03, Abbe-Refractometer	1,473 - 1,479	1,4754
Density (20°C)	21.024.03, Pycnometer	0,915 - 0,925	0,9182 g/cm <sup>3</sup>

n.s. = not specified

n.d. = not detected

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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 guaranty 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. 16.497.02/66.484.01; date of analysis: 2017.02.14