



Certificate of Analysis

Chia Seed (Spanish Sage) CO2-to

Batch #GE-58819

production: October 2018 retest: October 2020
 lab no. 25968
 raw material: *Salvia hispanica* - Seeds, dried, from organic farming
 country of origin of rawmaterial: Paraguay
 country of origin of product: Germany
 D/E - ratio: 3,1 - 3,6 kg raw material yield 1 kg product.

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

Sensory Check

feature	reference	result
Appearance:	Yellow-orange, clear oil	meets

Analytical Check

feature	method	limits	value unit
Fatty acid composition:			
Palmitic Acid C16:0	21.156.03, GCFID	n.s.	7.0 %
Palmitoleic Acid C16:1 w7	21.156.03, GCFID	n.s.	0.08 %
Stearic Acid C18:0	21.156.03, GCFID	n.s.	3.1 %
Oleic Acid C18:1 w9	21.156.03, GCFID	n.s.	6.4 %
Vaccenic Acid C18:1 w7	21.156.03, GCFID	n.s.	0.75 %
Linoleic Acid C18:2 w6	21.156.03, GCFID	15 - 25	19.8 %
alpha Linolenic acid C18:3 w3	21.156.03, GCFID	> 60	62.8 %
Arachidic Acid C20:0	21.156.03, GCFID	n.s.	0.10 %
Total fat			
Total fat	DGF method, C-VI 10b	n.s.	100.0 %
Saturated fatty acids			
Saturated fatty acids	DGF method, C-VI 10b	n.s.	10.2 %
Monounsaturated fatty acids			
Monounsaturated fatty acids	DGF method, C-VI 10b	n.s.	7.2 %
Polyunsaturated fatty acids			
Polyunsaturated fatty acids	DGF method, C-VI 10b	n.s.	82.6 %
Fat numbers:			
Unsaponifiables	21.020.03, DGF	n.s.	1.6 %
Peroxide Value	21.015.03, DGF, Wheeler	< 15	2.5 meq O2/kg
Acid value	21.016.03, DGF	< 5	1.4 mg KOH/g
Saponification value	21.017.02, DGF	n.s.	195 mg KOH/g
Ester value	= SV - AV	n.s.	194 mg KOH/g
Sum of Tocopherols (calc. as alpha Tocopherol)	21.113.03, HPLC	n.s.	0.05 %

n.s. = not specified

n.d. = not detected



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feature	method	limits	value unit
Sum of Sterols (calc. as Sitosterol)	21.132.03, GCFID	n.s.	0,35 %
Content of water	21.220.01, Karl Fischer method	n.s.	0,15 %
Refractive index (20°C)	21.080.03, Abbe-Refractometer	1,480 - 1,486	1,4833
Density (20°C)	21.024.03, Pycnometer	0,920 - 0,935	0,9278 g/cm ³
Benzo(a)pyrene		< 0,002	meets ppm
Sum of benzo(a)pyrene, benz(a)anthracene, benzo(b)fluoranthene and chrysene	21.177.02, GCMS	< 0,010	meets ppm

n.s. = not specified

n.d. = not detected

Storage conditions: Store in a cool, dry place and under inert gas!

Digitally signed by Anja Cawelius
Reason: Quality Control
Date: 2018.11.02 18:38:13 +01'00'

The product meets specifications no. 16.482.02/66.401.01; date of analysis: 2018.11.02

This computerized CoA has digital signature validated by Nature's Gift.

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.