

Nature's Gift®

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

316 Old Hickory Blvd East, Madison, TN 37115
Tel (615)612-4270 fax (615)860-9171
sold@naturesgift.com

www.naturesgift.com

Certificate of Analysis

Chia Seed CO2-to (organic)

Batch # GE-59070

Lab: 30467

production: August 2019 Retest: November 2020 Expiration date: August 2022
raw material: *Salvia hispanica* - Seeds, dried, from organic farming
country of origin of raw material: Peru
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.	6,6 %
Palmitoleic Acid C16:1 w7	21.156.03, GCFID	n.s.	0,14 %
Stearic Acid C18:0	21.156.03, GCFID	n.s.	3,4 %
Oleic Acid C18:1 w9	21.156.03, GCFID	n.s.	7,2 %
Vaccenic Acid C18:1 w7	21.156.03, GCFID	n.s.	0,52 %
Linoleic Acid C18:2 w6	21.156.03, GCFID	15 - 21	18,7 %
alpha Linolenic acid C18:3 w3	21.156.03, GCFID	> 60	63,2 %
Arachidic Acid C20:0	21.156.03, GCFID	n.s.	0,26 %
Total fat	DGF method, C-VI 10b	n.s.	100,0 %
Saturated fatty acids	DGF method, C-VI 10b	n.s.	10,2 %
Monounsaturated fatty acids	DGF method, C-VI 10b	n.s.	7,9 %
Polyunsaturated fatty acids	DGF method, C-VI 10b	n.s.	81,9 %
Fat numbers:			
Unsaponifiables	21.020.03, DGF	n.s.	1,2 %
Peroxide Value	21.015.03, DGF, Wheeler	< 15	1,8 meq O2/kg
Acid value	21.016.03, DGF	< 5	1,0 mg KOH/g
Saponification value	21.017.02, DGF	n.s.	193 mg KOH/g
Ester value	= SV - AV	n.s.	192 mg KOH/g
Sum of Tocopherols (calc. as alpha Tocopherol)	21.113.03, HPLC	n.s.	0,026 %

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.	1,8 %
aw-value	LabSwift aw-value Measurement	< 0,7	0,62 (26,4 °C)
Content of water	21.220.01, Karl Fischer method	n.s.	0,16 %
Refractive index (20°C)	21.080.03, Abbe-Refractometer	1,480 - 1,486	1,4820
Density (20°C)	21.024.03, Pycnometer	0,920 - 0,935	0,9298 g/cm ³
Benzo(a)pyrene	21.177.02, GCMS	< 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
Aflatoxine B1	21.193.02, HPLC	EC No. 1881/2006	meets (0,02) ppb
Total Aflatoxines B1,B2,G1,G2	21.193.02, HPLC	EC No. 1881/2006	meets (0,04) ppb

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

Digitally signed by Anja Cawelius
Reason: Quality Management
Date: 2020.11.09 10:26:09 +01'00'

The product meets specifications no. 165.002_03_AS and 66.401.03; date of analysis:2020.11.09
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.