



Certificate of Analysis

Chia Seed (Spanish Sage) CO2 (organic)

Batch #GE 871223

production: July 2017 retest: July 2019
raw material: *Salvia hispanica* - Seeds, dried, from organic farming
country of origin of rawmaterial: Uganda
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.	7,2 %
Palmitoleic Acid C16:1 w7	21.156.03, GCFID	n.s.	0,07 %
Stearic Acid C18:0	21.156.03, GCFID	n.s.	3,7 %
Oleic Acid C18:1 w9	21.156.03, GCFID	n.s.	6,8 %
Vaccenic Acid C18:1 w7	21.156.03, GCFID	n.s.	1,2 %
Linoleic Acid C18:2 w6	21.156.03, GCFID	15 - 25	19,0 %
alpha Linolenic acid C18:3 w3	21.156.03, GCFID	> 60	62,0 %
Arachidic Acid C20:0	21.156.03, GCFID	n.s.	0,21 %
Fat numbers:			
Unsaponifiables	21.020.03, DGF	n.s.	2,2 %
Peroxide Value	21.015.03, DGF, Wheeler	< 15	1,8 meqO2/kg
Acid value	21.016.03, DGF	< 5	3,4 mgKOH/g
Saponification value	21.017.02, DGF	n.s.	195 mgKOH/g
Ester value	= SV - AV	n.s.	192 mgKOH/g
Sum of Tocopherols (calc. as alpha Tocopherol)	21.113.02, HPLC	n.s.	0,04 %
Sum of Sterols (calc. as Sitosterol)	21.132.02, GCFID	n.s.	0,42 %
Content of water	21.220.01, Karl Fischer method	n.s.	0,11 %
Refractive index (20°C)	21.080.03, Abbe-Refractometer	1,480 - 1,486	1,4818
Density (20°C)	21.024.03, Pycnometer	0,920 - 0,935	0,9288 g/cm ³
Benzo(a)pyrene	GCMS	< 0,002	meets ppm

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



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

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feature	method	limits	value	unit
Sum of benzo(a)pyrene, benz(a)anthracene, benzo(b)fluoranthene and chrysene	GCMS	< 0,010	meets	ppm
aw-value	LabSwift aw-value Measurement	< 0,6	0,206 /	25,4 °C
		n.s. = not specified		n.d. = not detected

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

The product meets specifications no. 16.482.01/66.401.01; date of analysis: 2017.07.14

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.