



Certificate of Analysis

Black Cumin CO2-to extract (organic)

Batch #GE-58816

production: July 2018 retest: July 2023
lab no. 25161
raw material: *Nigella sativa* - Seed, dried, from organic farming
country of origin of rawmaterial: Egypt
country of origin of product: Germany
D/E - ratio: 5,0 - 6,7 kg raw material yield 1 kg product.

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

Sensory Check

feature	reference	result
Appearance:	Yellow to brown, at room temperature clear oil	meets
Odor:	typical smell	meets

Analytical Check

feature	method	limits	value unit
Fatty acid composition:			
Palmitic Acid C16:0	21.156.03, GCFID	n.s.	12.2 %
Palmitoleic Acid C16:1 w7	21.156.03, GCFID	n.s.	0.23 %
Stearic Acid C18:0	21.156.03, GCFID	n.s.	2.3 %
Oleic Acid C18:1 w9	21.156.03, GCFID	n.s.	21.7 %
Vaccenic Acid C18:1 w7	21.156.03, GCFID	n.s.	0.68 %
Linoleic Acid C18:2 w6	21.156.03, GCFID	45 - 65	60.5 %
alpha Linolenic acid C18:3 w3	21.156.03, GCFID	n.s.	0.21 %
Arachidic Acid C20:0	21.156.03, GCFID	n.s.	0.11 %
Eicosenoic acid C20:1w9	21.156.03, GCFID	n.s.	0.23 %
Eicosadienoic acid C20:2w9	21.156.03, GCFID	> 1.0	2.0 %
Total fat			
Saturated fatty acids	DGF method, C-VI 10b	n.s.	100.0 %
Monounsaturated fatty acids	DGF method, C-VI 10b	n.s.	14.6 %
Polyunsaturated fatty acids	DGF method, C-VI 10b	n.s.	22.8 %
Fat numbers:			
Acid value	21.016.03, DGF	n.s.**	62.6 %
			54.9 mg KOH/g



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n.s. = not specified

n.d. = not detected



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Thymoquinone	21.175.05, HPLC quant.	> 3.0	3.6 %
Carvacrol	21.175.05, HPLC quant.	n.s.	0.11 %
Thymol	21.175.05, HPLC quant.	n.s.	n.d. %
Content of essential oil	21.006.01, Distillation, gravimetric	> 5.0	6.6 % (g/100g)
Composition of the volatile compounds:	GCMS, 100 % Method		
alpha Thujene	21.214.01, GCMS	n.s.	5.4 %
alpha Pinene	21.214.01, GCMS	n.s.	1.2 %
Sabinene	21.214.01, GCMS	n.s.	0.61 %
beta Pinene	21.214.01, GCMS	n.s.	1.3 %
Cymene	21.214.01, GCMS	n.s.	24.9 %
Limonene	21.214.01, GCMS	n.s.	1.0 %
gamma Terpinene	21.214.01, GCMS	n.s.	0.25 %
Carvone	21.214.01, GCMS	n.s.	0.24 %
Thymoquinone	21.214.01, GCMS	n.s.	34.2 %
Carvacrol	21.214.01, GCMS	n.s.	1.9 %
Longifolene	21.214.01, GCMS	n.s.	2.6 %
Thymohydroquinone	21.214.01, GCMS	n.s.	1.9 %
Refractive index (20°C)	21.080.03, Abbe-Refractometer	1,4720 - 1,4780	1,4747
Density (20°C) aw-value	21.024.03, Pycnometer LabSwift aw-value Measurement	0,915 - 0,925 < 0,6 0,60 (24,9 °C)	0,9195 g/cm ³
Content of water	21.220.01, Karl Fischer method	n.s.	0,41 %
Benzo(a)pyrene	21.177.02, GCMS	EC No. 1881/2006, EC No. 1933/2015	meets (0,0014) ppm
Sum of benzo(a)pyrene, benz(a)anthracene, benzo(b)fluoranthene and chrysene	21.177.02, GCMS	EC No. 1881/2006, EC No. 1933/2015	meets (0,0079) ppm
Pesticides	analyzed by Covance	USP / EP	meets

Monitoring of substances*:



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Nigellicimine	GCMS	n.s.	n.d. ppm
Nigellicimine oxide	GCMS	n.s.	n.d. ppm
Isoquinone alkaloids	GCMS	n.s.	n.d. ppm

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*Substances to be monitored according to "Arrêté du Juin 2014" laying down the list of plants, authorized in food supplements

**Black Cumin Oil has naturally a high acid value.

The peroxide value can not be correctly measured due to thymoquinone and other essential oil components and would not be a measure for oil oxidation.

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

Digitally signed by Anja
Cawellius Reason: Quality
Control
Date: 2018.08.06 08:37:06 +02'00'

The product meets specification no. 66.436.04; date of analysis: 2018.07.04

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.