



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

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Certificate of Analysis: Black Cumin CO₂ Total, *Nigella sativa*, organically grown in India and CO₂ extracted in Germany.

Batch No: GE-441319

Lab No: 17263

Type No: 122.002 / DE-ÖKO-013

Raw material: *Nigella sativa* – seeds, dried, from organic farming, India

Country of origin of product: Germany

D/E - ratio: 5,0–6,7 kg raw material which yields 1 kg product

Product contains: Rosemary Antioxidant Extract (organic)

Production: August 2014

Retest: August 2019

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

Sensory Check

Feature	Reference	Result
Appearance	Yellow-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	21.156.02, GCFID	n.s.	12,9 %
Palmitoleic Acid C16:1 w7	21.156.02, GCFID	n.s.	0,28 %
Stearic Acid C18:0	21.156.02, GCFID	n.s.	2,5 %
Oleic Acid C18:1 w9	21.156.02, GCFID	n.s.	21,9 %
Vaccenic Acid C18:1 w7	21.156.02, GCFID	n.s.	0,79 %
Linoleic Acid C18:2 w6	21.156.02, GCFID	45 - 65	59,1 %
alpha Linolenic acid C18:3 w3	21.156.02, GCFID	n.s.	0,20 %
Arachidic Acid C20:0	21.156.02, GCFID	n.s.	0,13 %
Eicosenoic acid C20:1w9	21.156.02, GCFID	n.s.	0,28 %
Eicosadienoic acid C20:2w9	21.156.02, GCFID	> 1,0	1,9 %
Fat numbers:			
Acid value	21.016.02, DGF	< 40*	37 mg KOH/g
Sum of Tocopherols (calc. as alpha Tocopherol)			
Thymoquinone	21.113.02, HPLC	n.s.	0,016 %
Carvacrol	21.175.04, HPLC	> 1,0	1,1 %
Thymol	21.175.04, HPLC	n.s.	0,06 %
		n.s.	n.d. %
Content of essential oil	21.006.01, Distillation, gravimetric	> 2,0	2,2 % (g/ 100g)
Composition of the volatile compounds in extract:			
alpha Thujene	GCMS, 100 % Method		
	GCMS, Black cumin.met	n.s.	8,4 %

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Feature	Method	Limits	Value/Unit
alpha Pinene	GCMS, Black cumin.met	n.s.	1,7 %
Sabinene	GCMS, Black cumin.met	n.s.	0,77 %
beta Pinene	GCMS, Black cumin.met	n.s.	1,6 %
Cymene	GCMS, Black cumin.met	n.s.	30,3 %
Limonene	GCMS, Black cumin.met	n.s.	1,2 %
gamma Terpinene	GCMS, Black cumin.met	n.s.	1,4 %
Carvone	GCMS, Black cumin.met	n.s.	n.d. %
Thymoquinone	GCMS, Black cumin.met	n.s.	39,3 %
Carvacrol	GCMS, Black cumin.met	n.s.	2,5 %
Longifolene	GCMS, Black cumin.met	n.s.	2,8 %
Thymohydroquinone	GCMS, Black cumin.met	n.s.	2,2 %
Refractive index (20°C)	Abbe-Refractometer	1,4720 - 1,4780	1,4747
Density (20°C) 2	1.024.02, Pycnometer	0,915 - 0,925	0,918 g/cm ³
Monitoring of substances**:			
Isoquinone alcaloids	GCMS	n.s.	< 10 ppm

n.s. = not specified

n.d. = not detected

*Black Cumin Oil has naturally 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

**according to "Arrêté du Juin 2014" establishing the list of plant, authorized in food supplements

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. 16.478.02/66.436.02; date of analysis: 2014.08.25