

Nature's Gift®

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

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Certificate of Analysis

Raspberry Seed CO2 Total (organic)

Batch # GE-59184

production: June 2021 retest: June 2023
raw material: *Rubus idaeus* - Seeds, dried (from organic farming)
country of origin of raw material: Poland
country of origin of product: Germany
D/E - ratio: 7,5 - 8,3 kg raw material yield 1 kg product.

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

Sensory Check

feature	reference	result
Appearance:	yellow to brown oil	meets

Analytical Check

feature	method	limits	value	unit
Fatty acid composition:				
Palmitic Acid C16:0	21.156.03, GCFID	n.s.	2,0	%
Palmitoleic Acid C16:1 w7	21.156.03, GCFID	n.s.	0,08	%
Stearic Acid C18:0	21.156.03, GCFID	n.s.	0,71	%
Oleic Acid C18:1 w9	21.156.03, GCFID	n.s.	11,3	%
Vaccenic Acid C18:1 w7	21.156.03, GCFID	n.s.	0,56	%
Linoleic Acid C18:2 w6	21.156.03, GCFID	48 - 63	55,3	%
alpha Linolenic acid C18:3 w3	21.156.03, GCFID	23 - 30	29,7	%
Arachidic Acid C20:0	21.156.03, GCFID	n.s.	0,41	%
Total fat				
Saturated fatty acids	DGF method, C-VI 10b	n.s.	100,0	%
Monounsaturated fatty acids	DGF method, C-VI 10b	n.s.	3,1	%
Polyunsaturated fatty acids	DGF method, C-VI 10b	n.s.	11,9	%
Fat numbers:				
Peroxide Value	21.015.03, DGF, Wheeler	< 10	4,1	meq O2/kg
Acid value	21.016.03, DGF	< 20	4,9	mg KOH/g
Sum of Tocopherols (calc. as alpha Tocopherol)				
Sum of Tocotrienols	21.113.03, HPLC	n.s.	0,19	%
Content of water	21.220.01, Karl Fischer method	n.s.	0,014	%
			0,15	%

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

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feature	method	limits	value	unit
Refractive index (20°C)	21.080.03, Abbe-Refractometer	1,470 - 1,495	1,4810	
Density (20°C)	21.024.03, Pycnometer	0,915 - 0,940	0,9282	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

n.s. = not specified

n.d. = not detected

The product meets the current version of the analytical (162.004_03_AS) and of the general (162.004_04_S) specification.

date of analysis: 2021.06.04

Digitally signed by Anja Cawelius
Reason: Quality Control
Date: 2021.06.04 17:48:27 +0200

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.