

Certificate of Analysis

Rosehip Seed CO2 Total (organic)

Batch # GE-59276

production: May 2022 retest: May 2024
raw material: *Rosa canina* - Seeds, dried, from organic farming

country of origin of raw material: Chile, Lesotho
country of origin of product: Germany
D/E - ratio: 12 - 15 kg raw material yield 1 kg product.

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

Sensory Check

feature	reference	result
Appearance:	orange-light reddish, clear oil	meets

Analytical Check

feature	method	limits	value	unit
Fatty acid composition:				
Palmitic Acid C16:0	21.156.03, GCFID	2 - 6	3,0	%
Palmitoleic Acid C16:1 w7	21.156.03, GCFID	n.s.	0,10	%
Stearic Acid C18:0	21.156.03, GCFID	< 5	1,6	%
Oleic Acid C18:1 w9	21.156.03, GCFID	12 - 22	14,4	%
Vaccenic Acid C18:1 w7	21.156.03, GCFID	n.s.	0,68	%
Linoleic Acid C18:2 w6	21.156.03, GCFID	41 - 59	45,6	%
alpha Linolenic acid C18:3 w3	21.156.03, GCFID	20 - 35	33,8	%
Arachidic Acid C20:0	21.156.03, GCFID	n.s.	0,74	%
Total fat	DGF method, C-VI 10b	n.s.	100,0	%
Saturated fatty acids	DGF method, C-VI 10b	n.s.	5,4	%
Monounsaturated fatty acids	DGF method, C-VI 10b	n.s.	15,2	%
Polyunsaturated fatty acids	DGF method, C-VI 10b	n.s.	79,4	%
Sum of Carotenoids (calc. as β -Carotene)	21.008.05, Spectrometer	0,01 - 0,02	0,017	%
Fat numbers:				
Peroxide Value	21.015.03, DGF, Wheeler	< 12	4,7	meq O2/kg
Acid value	21.016.03, DGF	1 - 15	1,3	mg KOH/g
Saponification value	21.017.02, DGF	180 - 210	191	mg KOH/g
n.s. = not specified			n.d. = not detected	

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feature	method	limits	value	unit
Ester value	= SV - AV	170 - 200	190	mg KOH/g
Unsaponifiables	21.020.03, DGF	< 3	2,1	%
Content of water	21.220.01, Karl Fischer method	n.s.	0,20	%
aw-value	LabSwift aw-value Measurement	< 0,7	0,609 (24,1 °C)	
Sum of Sterols (calc. as Sitosterol)	21.132.03, GC/FID	n.s.	0,38	%
Sum of Tocopherols (calc. as alpha Tocopherol)	21.113.03, HPLC	n.s.	0,09	%
Refractive index (20°C)	21.271.01, Digital Refractometer	1,470 - 1,485	1,4799	
Density (20°C)	21.024.03, Pycnometer	0,910 - 0,930	0,9277	g/cm³
Benzo(a)pyrene	21.177.02, GC/MS	< 0,002	meets	ppm
Sum of benzo(a)pyrene, benzo(a)anthracene, benzo(b)fluoranthene and chrysene	21.177.02, GC/MS	< 0,010	meets	ppm

n.s. = not specified

n.d. = not detected

The product meets the current version of the analytical (046.004_05_AS) and of the general (046.004_08_S) specification.

date of analysis: 2022.05.04

This computerized CoA has digital signature validated by Nature's Gift .



Digitally signed by Aria Cawelius
Reason: Quality control
Date: 2022.05.04 11:46:39+0200

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