

Nature's Gift®

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

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

www.naturesgift.com

Certificate of Analysis

Rosehip Seed CO2 Total (organic)

Batch # GE-59186

production: May 2021 retest: May 2023
raw material: *Rosa canina* - Seeds, dried, from organic farming

country of origin of raw material: Lesotho, Bosnia and Herzegovina
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	1,7	%
Oleic Acid C18:1 w9	21.156.03, GCFID	12 - 22	16,3	%
Vaccenic Acid C18:1 w7	21.156.03, GCFID	n.s.	n.d.	%
Linoleic Acid C18:2 w6	21.156.03, GCFID	41 - 59	48,0	%
alpha Linolenic acid C18:3 w3	21.156.03, GCFID	20 - 35	30,1	%
Arachidic Acid C20:0	21.156.03, GCFID	n.s.	0,81	%
Total fat	DGF method, C-VI 10b	n.s.	100,0	%
Saturated fatty acids	DGF method, C-VI 10b	n.s.	5,5	%
Monounsaturated fatty acids	DGF method, C-VI 10b	n.s.	16,4	%
Polyunsaturated fatty acids	DGF method, C-VI 10b	n.s.	78,2	%
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	4,3	meq O2/kg
Acid value	21.016.03, DGF	1 - 15	1,9	mg KOH/g
Saponification value	21.017.02, DGF	180 - 210	191	mg KOH/g
Ester value	= SV - AV	170 - 200	189	mg KOH/g

n.s. = not specified

n.d. = not detected

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feature	method	limits	value	unit
Unsaponifiables	21.020.03, DGF	< 3	2,4	%
Content of water	21.220.01, Karl Fischer method	n.s.	0,15	%
Sum of Sterols (calc. as Sitosterol)	21.132.03, GCFID	n.s.	0,45	%
Sum of Tocopherols (calc. as alpha Tocopherol)	21.113.03, HPLC	n.s.	0,18	%
Refractive index (20°C)	21.080.03, Abbe-Refractometer	1,470 - 1,485	1,4794	
Density (20°C)	21.024.03, Pycnometer	0,910 - 0,930	0,9280	g/cm ³
Benzo(a)pyrene	21.177.02, GCMS	< 0,002	meets	ppm
Sum of benzo(a)pyrene, benzo(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 (046.004_05_AS) and of the general (046.004_08_S) specification.

date of analysis: 2021.05.27

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

Digitally signed by Anja Cawellius
Reason: Quality Control
Date: 2021.06.21 16:40:06 +02'00'

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.