



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

www.naturesgift.com

316 Old Hickory Blvd East
Madison, TN 37115
Tel(615)612-4270 fax (615)860-9171

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Certificate of Analysis

Rosehip Seed CO2 Total Extract

Rosa canina

Batch #CL-871221

Type no. 046.004
Lab no. 24439
Production: March 2018 retest: March 2020
Raw material: *Rosa canina* - Seeds, dried, from organic farming
Country of origin of raw Chile
Material: country of origin of Germany
Product: 13 - 15 kg raw material yield 1 kg product.
D/E - ratio:
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	3,2 %
Palmitoleic Acid C16:1 w7	21.156.03, GCFID	n.s.	0,13 %
Stearic Acid C18:0	21.156.03, GCFID	< 5	1,9 %
Oleic Acid C18:1 w9	21.156.03, GCFID	12 - 22	14,8 %
Vaccenic Acid C18:1 w7	21.156.03, GCFID	n.s.	0,52 %
Linoleic Acid C18:2 w6	21.156.03, GCFID	41 - 59	47,0 %
Arachidic Acid C20:0	21.156.03, GCFID	n.s.	0,78 %
alpha Linolenic acid C18:3 w3	21.156.03, GCFID	20 - 35	31,5 %
Sum of Carotenoids (calc. as β-Carotene)	21.008.05, Spectrometer	0,01 - 0,02	0,016 %
Fat numbers:			
Peroxide Value	21.015.03, DGF, Wheeler	< 12	2,7 meq O2/kg
Acid value	21.016.03, DGF	1 - 15	1,4 mg KOH/g
Saponification value	21.017.02, DGF	180 - 210	189 mg KOH/g
Ester value	= SV - AV	170 - 200	188 mg KOH/g
Unsaponifiables	21.020.03, DGF	< 3	1,6 %
Content of water	21.220.01, Karl Fischer method	n.s.	0,12 %
Sum of Sterols (calc. as Sitosterol)	21.132.03, GCFID	n.s.	0,59 %

n.s. = not specified

n.d. = not detected



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feature	method	limits	value unit
Sum of Tocopherols (calc. as alpha Tocopherol)	21.113.03, HPLC	n.s.	0,091 %
Refractive index (20°C)	21.080.03, Abbe-Refractometer	1,475 - 1,485	1,4805
Density (20°C)	21.024.03, Pycnometer	0,910 - 0,930	0,9254 g/cm ³
aw-value	LabSwift aw-value Measurement	< 0,6	0,284/ 23,4°C
Benzo(a)pyrene	GCMS	< 0,002	meets ppm
Sum of benzo(a)pyrene, benz(a)anthracene, benzo(b)fluoranthene and chrysene	GCMS	< 0,010	meets ppm

n.s. = not specified

n.d. = not detected

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

The product meets specifications no. 16.275.02/66.267.04; date of analysis: 2018.03.02.

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.