



Certificate of Analysis

Rosehip Seed CO2-to extract (organic), type no. 046.004

Batch #GE-58877

production: January 2019 retest: January 2021
 raw material: *Rosa canina* - Seeds, dried, from organic farming
 country of origin of rawmaterial: Lesotho
 country of origin of product: Germany
 lab no. 26339
 D/E - ratio: 13 - 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	2,9 %
Palmitoleic Acid C16:1 w7	21.156.03, GCFID	n.s.	0,12 %
Stearic Acid C18:0	21.156.03, GCFID	< 5	1,6 %
Oleic Acid C18:1 w9	21.156.03, GCFID	12 - 22	16,0 %
Vaccenic Acid C18:1 w7	21.156.03, GCFID	n.s.	0,37 %
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	32,8 %
Arachidic Acid C20:0	21.156.03, GCFID	n.s.	0,73 %
Total fat	DGF method, C-VI 10b	n.s.	100,0 %
Saturated fatty acids	DGF method, C-VI 10b	n.s.	5,2 %
Monounsaturated fatty acids	DGF method, C-VI 10b	n.s.	16,4 %
Polyunsaturated fatty acids	DGF method, C-VI 10b	n.s.	78,4 %
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	1,6 meq O2/kg
Acid value	21.016.03, DGF	1 - 15	1,5 mg KOH/g
Saponification value	21.017.02, DGF	180 - 210	187 mg KOH/g
Ester value	= SV - AV	170 - 200	185 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	2,9 %
aw-value	LabSwift aw-value Measurement	< 0,7	0,59 (22,6 °C)
Content of water	21.220.01, Karl Fischer method	n.s.	0,14 %
Sum of Sterols (calc. as Sitosterol)	21.132.03, GCFID	n.s.	0,49 %
Sum of Tocopherols (calc. as alpha Tocopherol)	21.113.03, HPLC	n.s.	0,073 %
Refractive index (20°C)	21.080.03, Abbe-Refractometer	1,475 - 1,485	1,4815
Density (20°C)	21.024.03, Pycnometer	0,910 - 0,930	0,9259 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

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

Digitally signed by Anja Cawelius
Reason: Quality Control
Date: 01.07.2019, 17:58:26 +01'00'

The product meets specifications no. 16.275.03/66.267.04; date of analysis: 01.07.2019.

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

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.