



Certificate of Analysis

Rosehip CO2-to extract (organic)

Batch #GE-58832

production: March 2018 retest: March 2020
 lab no. 24544
 raw material: *Rosa canina* - Fruit, dried, from organic farming
 country of origin of rawmaterial: Lesotho
 country of origin of product: Germany
 D/E - ratio: 18 - 22 kg raw material yield 1 kg product.

Product contains: 0,05 % Rosemary Antioxidant Extract (organic)

Sensory Check

feature	reference	result
Appearance:	Clear to light turbid, dark red oil	meets

Analytical Check

feature	method	limits	value unit
Fatty acid composition:			
Palmitic Acid C16:0	21.156.03, GCFID	2,5 - 5,5	2.8 %
Palmitoleic Acid C16:1 w7	21.156.03, GCFID	n.s.	0.08 %
Stearic Acid C18:0	21.156.03, GCFID	1.0 - 3.5	1.4 %
Oleic Acid C18:1 w9	21.156.03, GCFID	14 - 20	14.8 %
Vaccenic Acid C18:1 w7	21.156.03, GCFID	n.s.	0.39 %
Linoleic Acid C18:2 w6	21.156.03, GCFID	40 - 60	45.1 %
alpha Linolenic acid C18:3 w3	21.156.03, GCFID	20 - 40	34.8 %
Arachidic Acid C20:0	21.156.03, GCFID	n.s.	0.66 %
Fat numbers:			
Peroxide Value	21.015.03, DGF, Wheeler	< 10	4.2 meq O2/kg
Acid value	21.016.03, DGF	< 15	5.5 mg KOH/g
Saponification value	21.017.02, DGF	180 - 195	191 mg KOH/g
Ester value	= SV - AV	165 - 185	185 mg KOH/g
Unsaponifiables	21.020.03, DGF	< 7	2.5 %
Sum of Sterols (calc. as Sitosterol)	21.132.03, GCFID	> 0.5	0.57 %
Sum of Carotenoids (calc. as β-Carotene)	21.008.05, Spectrometer	0.10 - 0.18	0.158 %
Sum of Tocopherols (calc. as alpha Tocopherol)	21.113.03, HPLC	n.s.	0.13 %



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n.s. = not specified

n.d. = not detected



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Analytical Check

feature	method	limits	value	unit
Content of water	21.220.01, Karl Fischer method	< 0,5	0,24	%
Refractive index (20°C)	21.080.03, Abbe-Refractometer	1,470 - 1,490	1,4824	
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
aw-value	LabSwift aw-value Measurement	< 0,7	0,66/	23,7 °C

n.s. = not specified

n.d. = not detected

Storage conditions: Store in a cool, dry place!

Digitally signed by Anja Cawelius
Reason: Quality Control
Date: 2018.03.29 14:48:50 +02'00'

The product meets specifications no. 16.197.02/66.296.02; date of analysis: 2018.03.21

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

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.