



Certificate of Analysis

Rosehip CO2-to extract (organic)

Art. No. CO2-ROSH-50

batch no. : 922315, lab no. 34491
 production : September 2022 - Retest: September 2024
 raw material : *Rosa canina* - Fruit, dried, from organic farming
 country of origin of raw material : Lesotho
 country of origin of product : Germany
 D/E - ratio : 14 - 22 kg raw material yield 1 kg product
 Product contains : 0,05 % Rosemary Antioxidant Extract (organic)

Sensory Check

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feature	reference	result
Appearance:	Clear to 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	3,0	%
Palmitoleic Acid C16:1 w7	21.156.03, GCFID	n.s.	0,12	%
Stearic Acid C18:0	21.156.03, GCFID	1,0-3,5	1,5	%
Oleic Acid C18:1 w9	21.156.03, GCFID	14-20	14,9	%
Vaccenic Acid C18:1 w7	21.156.03, GCFID	n.s.	0,55	%
Linoleic Acid C18:2 w6	21.156.03, GCFID	40-60	44,8	%
alpha Linolenic Acid C18:3 w3	21.156.03, GCFID	20-40	34,4	%
Arachidic Acid C20:0	21.156.03, GCFID	n.s.	0,78	%
Total fat	DGF method C-VI 10b	n.s.	100	%
Saturated fatty acids	DGF method C-VI 10b	n.s.	5,3	%
Monounsaturated fatty acids	DGF method C-VI 10b	n.s.	15,6	%
Polysaturated fatty acids	DGF method C-VI 10b	n.s.	79,2	%
Fat numbers:				
Unsaponifiables	21.020.03, DGF	< 7	2,1	%
Peroxide Value	21.015.03, DGF Wheeler	< 15	4,5	meq O2/kg
Acid Value	21.016.03, DGF	< 15	3,0	mg KOH/g
Saponification Value	21.017.02, DGF	180-195	192	mg KOH/g
Ester Value	= SV-AV	165-195	180	mg KOH/g

n.s. = not specified n.d. = not detected

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Analytical Check

feature	method	limits	value	unit
Sum of Tocopherols (calc. as alpha Tocopherol)	21.013.03, HPLC	n.s.	0,10	%
Sum of Sterols (calc. as Sitosterol)	21.132.03, GCFID	> 0,5	0,65	%
Sum of Carotenoids (calc. as β -Carotene)	21.008.05, Spectrometer	0,10-0,18	0,13	%
Content of water	21.220.01, Karl Fisher method	< 0,5	0,18	%
aw Value	LabSwift aw Value Measurement	< 0,7	0,481 (23,5°C)	
Refract index	21.080.03 Abbe-Refractometer	1,470-1,490	1,4804	
Density (20°C)	21.024.03, Pycnometer	n.s.	0,9302	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

The product meets the current version of the analytical (046.005_06_AS) and general (046.005_05_S) specification.

Date of analysis: 2022.09.30

This computerized CoA has digital signature validated by MANUFACTURER QC.

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.