



Certificate of Analysis

Rosehip Seed CO2-to extract (organic)



Art. No. CO2-ROHS-50 | CO2-ROHS-100

batch no. : 922012, lab no. 34379
 production : September 2022 - Retest: September 2024
 raw material : *Rosa canina* - Seeds, dried, from organic farming
 country of origin of raw material : Chile, Bosnia and Herzegovina Lesotho
 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

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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	3,5	%
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	15,7	%
Vaccenic Acid C18:1 w7	21.156.03, GCFID	n.s.	0,17	%
Linoleic Acid C18:2 w6	21.156.03, GCFID	41-59	47,6	%
alpha Linolenic Acid C18:3 w3	21.156.03, GCFID	20-35	30,1	%
Arachidic Acid C20:0	21.156.03, GCFID	n.s.	0,80	%
Total fat	DGF method C-VI 10b	n.s.	100	%
Saturated fatty acids	DGF method C-VI 10b	n.s.	6,3	%
Monounsaturated fatty acids	DGF method C-VI 10b	n.s.	16,0	%
Polyunsaturated fatty acids	DGF method C-VI 10b	n.s.	77,8	%
Sum of Carotenoides (calc. as β-Carotene)	21.008.05, Spectrometer	0,01-0,02	0,016	%
Fat numbers:				
Unsaponifiables	21.020.03, DGF	< 3	0,94	%
Peroxide Value	21.015.03, DGF Wheeler	< 12	3,9	meq O2/kg
Acid Value	21.016.03, DGF	1-15	1,3	mg KOH/g
Saponification Value	21.017.02, DGF	180-200	191	mg KOH/g
Ester Value	= SV-AV	170-200	190	mg KOH/g

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 Fisher method	n.s.	0,20	%
aw Value	LabSwift aw Value Measurement	< 0,7	0,688 (24,2°C)	
Sum of Tocopherols (calc. as alpha Tocopherol)	21.013.03, HPLC	n.s.	0,067	%
Sum of Sterols (calc. As Sitosterol)	21.132.03, GCFID	n.s.	0,50	%
Refractic index	21.080.03 Abbe-Refractometer	1,470-1,485	1,4790	
Density (20°C)	21.024.03, Pycnometer	0,910-0,930	0,9282	g/cm3
Benzo(a)pyrene	21.177.02, GCMS	< 0,002	meets (0,00045)	ppm
Sum of benzo(a)pyrene, benz(a)anthracene, benzo(b)fluoranthene and chrysene	21.177.02, GCMS	< 0,010	meets (0,005)	ppm

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

The product meets the current version of the analytical (046.005_05_AS) and of the general (046.004_08_S) specification.

Date of analysis: 2022.09.12

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.