



Certificate of Analysis

Seabuckthorn Pulp CO2-to extract (organic), type no. 041.007

Batch #GE-58879

production: January 2019 retest: January 2024
raw material: *Hippophae rhamnoides* - Fruit Pulp, dried, from organic farming
country of origin of rawmaterial: Germany
country of origin of product: Germany
lab no. 26523
D/E - ratio: 8,0 - 14,0 kg raw material yield 1 kg product.
Product contains: 0,08 % Rosemary Antioxidant Extract (organic)

Sensory Check

feature	reference	result
Appearance:	orange-red oil, at room temperature turbidness by some precipitates possible	meets
Odour:	seabuckthorn typical smell	meets

Analytical Check

feature	method	limits	value unit
Fatty acid composition:			
Palmitic Acid C16:0	21.156.03, GCFID	30 - 40	34,2 %
Palmitoleic Acid C16:1 w7	21.156.03, GCFID	22 - 33	31,2 %
Stearic Acid C18:0	21.156.03, GCFID	< 3	0,83 %
Oleic Acid C18:1 w9	21.156.03, GCFID	10 - 28	22,2 %
Vaccenic Acid C18:1 w7	21.156.03, GCFID	4 - 9	6,6 %
Linoleic Acid C18:2 w6	21.156.03, GCFID	1 - 9	3,2 %
alpha Linolenic acid C18:3 w3	21.156.03, GCFID	< 5	1,5 %
Arachidic Acid C20:0	21.156.03, GCFID	n.s.	0,21 %
Total fat			
	DGF method, C-VI 10b	n.s.	100,0 %
Saturated fatty acids			
	DGF method, C-VI 10b	n.s.	35,2 %
Monounsaturated fatty acids			
	DGF method, C-VI 10b	n.s.	60,0 %
Polyunsaturated fatty acids			
	DGF method, C-VI 10b	n.s.	4,8 %
Fat numbers:			
Unsaponifiables	21.020.03, DGF	1 - 7	7 %
Peroxide Value	21.015.03, DGF, Wheeler	< 11	1,1 meq O2/kg
Acid value	21.016.03, DGF	4 - 18	10,5 mg KOH/g
Saponification value	21.017.02, DGF	170 - 210	180 mg KOH/g
Ester value	= SV - AV	160 - 210	170 mg KOH/g

n.s. = not specified

n.d. = not detected



Certificate of Analysis

Seabuckthorn Pulp CO₂-to extract (organic), type no. 041.007

Batch #GE-58879

Analytical Check

feature	method	limits	value	unit
Sum of Carotenoids (calc. as β -Carotene)	21.008.05, Spectrometer	0,14 - 0,27	0,14	%
Sum of Sterols (calc. as Sitosterol)	21.132.03, GCFID	> 1	2,0	%
Sum of Tocopherols (calc. as alpha Tocopherol)	21.113.03, HPLC	> 0,1	0,12	%
Content of water	21.220.01, Karl Fischer method	< 1	0,09	%
aw-value	LabSwift aw-value Measurement	< 0,7	0,26 (22,6 °C)	
Refractive index (20°C)	21.080.03, Abbe-Refractometer	1,460- 1,480	1,4725	
Density (20°C)	21.024.03, Pycnometer	0,900 - 0,925	0,9125	g/cm ³
Benzo(a)pyrene	21.177.02, GCMS	< 0,002	entspricht	ppm
Sum of benzo(a)pyrene, benz(a)anthracene, benzo(b)fluoranthene and chrysene	21.177.02, GCMS	< 0,010	entspricht	ppm

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: 01.30.2019. 08:46:27 +01'00'

The product meets specifications no. 16.164.07/66.180.03; date of analysis: 01.29.2019.

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.