



Healing Body, Mind and Spirit
With Pure Essential Oils Since 1995

www.naturesgift.com

316 Old Hickory Blvd East
Madison, TN 37115
Tel(615)612-4270 fax (615)860-9171

orderdesk@naturesgift.com

Certificate of Analysis Seabuckthorn Seed CO2

Batch #GE-81117

lab no: 24739
type no: 041.008
production: April 2018 retest: April 2020
raw material: *Hippophae rhamnoides* - Seeds, dried, from organic farming
country of origin of raw material: Germany
country of origin of product: Germany
D/E - ratio: 13 - 20 kg raw material yield 1 kg product.

Product contains: 0,1 % Rosemary Antioxidant Extract (organic)

Sensory Check

feature	reference	result
Appearance:	Orange-yellow, clear oil	meets

Analytical Check

feature	method	limits	value unit
Fatty acid composition:			
Palmitic Acid C16:0	21.156.03, GCFID	6 - 12	6,8 %
Palmitoleic Acid C16:1 w7	21.156.03, GCFID	< 5	0,55 %
Stearic Acid C18:0	21.156.03, GCFID	2 - 6	2,8 %
Oleic Acid C18:1 w9	21.156.03, GCFID	14 - 21	15,4 %
Vaccenic Acid C18:1 w7	21.156.03, GCFID	< 5	1,8 %
Linoleic Acid C18:2 w6	21.156.03, GCFID	34 - 41	37,4 %
alpha Linolenic acid C18:3 w3	21.156.03, GCFID	24 - 35	34,9 %
Arachidic Acid C20:0	21.156.03, GCFID	n.s.	0,42 %
Fat numbers:			
Unsaponifiables	21.020.03, DGF	1 - 6	3,6 %
Peroxide Value	21.015.03, DGF, Wheeler	< 15	3,4 meq O2/kg
Acid value	21.016.03, DGF	< 18	2,2 mg KOH/g
Saponification value	21.017.02, DGF	150 - 210	190 mg KOH/g
Ester value	= SV - AV	140 - 200	188 mg KOH/g
Sum of Carotenoids (calc. as β-Carotene)	21.008.05, Spectrometer	< 0,06	0,006 %
Sum of Sterols (calc. as Sitosterol)	21.132.03, GCFID	> 1,0	1,2 %
Sum of Tocopherols (calc. as alpha Tocopherol)	21.113.03, HPLC	n.s.	0,20 %
Content of water	21.220.01, Karl Fischer method	n.s.	0,16 %

n.s. = not specified

n.d. = not detected



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feature	method	limits	value unit
Refractive index (20°C)	21.080.03, Abbe-Refractometer	1,470 - 1,490	1,4804
Density (20°C)	21.024.03, Pycnometer	0,910 - 0,930	0,9253 g/cm ³
Benzo(a)pyrene	21.177.02, GCMS	< 2,0	1,2 ppb
Sum of benzo(a)pyrene, benz(a)anthracene, benzo(b)fluoranthene and chrysene aw-value	21.177.02, GCMS LabSwift aw-value Measurement	< 10,0 < 0,6 0,59 (23,5 °C)	5,5 ppb

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

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

Digitally signed by Robin Denmark
Reason: quality control
Date: 2018.04.25

The product meets specifications no. 16.170.06/66.199.04; date of analysis: 2018.04.25

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.