



Nature's Gift Aromatherapy
316 Old Hickory Blvd E
Madison, TN 37115
phone (615) 612-4270 fax (615) 860-9171.
sold@naturesgift.com

Certificate of Analysis

Pomegranate Seed CO2-to extract (organic), type no. 170.001

Batch #GE-58876

production: October 2018 retest: October 2020
raw material: *Punica granatum* - Seed, dried, from organic farming
country of origin of raw material: Turkey
country of origin of product: Germany
lab no. 25790
D/E - ratio: 8,5 - 12,5 kg raw material yield 1 kg product.
Product contains: 0,1 % Rosemary Antioxidant Extract (organic)

Sensory Check

feature	reference	result
Appearance:	Yellow oil, with viscous consistence at room temperature	meets

Analytical Check

feature	method	limits	value	unit
Fatty acid composition:				
Palmitic Acid C16:0	21.156.03, GCFID	n.s.	3,3	%
Palmitoleic Acid C16:1 w7	21.156.03, GCFID	n.s.	0,05	%
Stearic Acid C18:0	21.156.03, GCFID	n.s.	2,3	%
Oleic Acid C18:1 w9	21.156.03, GCFID	n.s.	6,1	%
Vaccenic Acid C18:1 w7	21.156.03, GCFID	n.s.	0,56	%
Linoleic Acid C18:2 w6	21.156.03, GCFID	n.s.	6,1	%
alpha Linolenic acid C18:3 w3	21.156.03, GCFID	n.s.	0,04	%
Arachidic Acid C20:0	21.156.03, GCFID	n.s.	0,76	%
Punicic Acid C18:3 w5	21.156.03, GCFID	> 60	68,6	%
CLnA Isomers	21.156.03, GCFID	n.s.	12,1	%
Total fat	DGF method, C-VI 10b	n.s.	100	%
Saturated fatty acids	DGF method, C-VI 10b	n.s.	6,4	%
Monounsaturated fatty acids	DGF method, C-VI 10b	n.s.	6,7	%
Polyunsaturated fatty acids	DGF method, C-VI 10b	n.s.	86,9	%
Fat numbers:				
Peroxide Value	21.015.03, DGF, Wheeler	< 10	3,1	meq O2/kg
Acid value	21.016.03, DGF	< 10	2,9	mg KOH/g
Saponification value	21.017.02, DGF	n.s.	189	mg KOH/g
Ester value	= SV - AV	n.s.	186	mg KOH/g

n.s. = not specified

n.d. = not detected



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feature	method	limits	value	unit
Unaponifiables	21.020.03, DGF	n.s.	2,0	%
Content of water	21.220.01, Karl Fischer method	< 0,5	0,07	%
aw-value	LabSwift aw-value Measurement	< 0,6	0,369 (24,2°C)	
Sum of Tocopherols (calc. as alpha Tocopherol)	21.113.03, HPLC	n.s.	0,22	%
Sum of Sterols (calc. as Sitosterol)	21.132.03, GCFID	n.s.	0,59	%
Squalene	21.180.02, GCFID	n.s.	0,046	%
Refractive index (20°C)	21.080.03, Abbe-Refractometer	1,513 - 1,525	1,5212	
Density (20°C)	21.024.03, Pycnometer	0,930 - 0,950	0,9392	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

Storage conditions: Store in a cool, dry place!

Digitally signed by Anja Cawellius
Reason: Quality Control
Date: 10.05.2018. 15:36:47 +02'00'

The product meets specifications no. 16.370.01/66.290.03; date of analysis: 10.05.2018.

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.