

Certificate of Analysis Pomegranate Seed CO₂ Total Batch #DE-59372

lab no. 35907

production: June 2023

retest: June 2025

raw material:

Punica granatum - Seed, dried, from organic farming

country of origin of raw material: Türkiye

country of origin of product: Germany

D/E - ratio: 6,0 - 10,0 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.	2,7 %
Palmitoleic Acid C16:1 w7	21.156.03, GCFID	n.s.	0,03 %
Stearic Acid C18:0	21.156.03, GCFID	n.s.	1,9 %
Oleic Acid C18:1 w9	21.156.03, GCFID	n.s.	4,7 %
Vaccenic Acid C18:1 w7	21.156.03, GCFID	n.s.	0,63 %
Linoleic Acid C18:2 w6	21.156.03, GCFID	n.s.	5,1 %
alpha Linolenic acid C18:3 w3	21.156.03, GCFID	n.s.	0,02 %
Arachidic Acid C20:0	21.156.03, GCFID	n.s.	0,44 %
Punicic Acid C18:3 w5	21.156.03, GCFID	> 60	67,6 %
CLnA Isomers	21.156.03, GCFID	n.s.	16,8 %
Total fat	DGF method, C-VI 10b	n.s.	100,0 %
Saturated fatty acids	DGF method, C-VI 10b	n.s.	2,4 %
Monounsaturated fatty acids	DGF method, C-VI 10b	n.s.	5,4 %
Polyunsaturated fatty acids	DGF method, C-VI 10b	n.s.	89,5 %
Fat numbers:			
Peroxide Value	21.015.03, DGF, Wheeler	< 10	4,1 meq O ₂ /kg
Acid value	21.016.03, DGF	< 10	1,9 mg KOH/g
Saponification value	21.017.02, DGF	n.s.	195 mg KOH/g
Ester value	= SV - AV	n.s.	193 mg KOH/g
Unsaponifiables	21.020.03, DGF	n.s.	1,4 %
Content of water	21.220.01, Karl Fischer method	< 0,5	0,06 %

n.s. = not specified

n.d. = not detected

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Analytical Check

feature	method	limits	value unit
aw-value	LabSwift aw-value Measurement	< 0,7	0,253 (25,6 °C)
Sum of Tocopherols (calc. as alpha Tocopherol)	21.113.03, HPLC	n.s.	0,25 %
Sum of Sterols (calc. as Sitosterol)	21.132.03, GCFID	n.s.	0,45 %
Squalene	21.180.02, GCFID	n.s.	0,083 %
Refractive index (20°C)	21.271.01, Digital Refractometer	1,513 - 1,525	1,5207
Density (20°C)	21.024.03, Pycnometer	0,930 - 0,950	0,9408 g/cm ³

n.s. = not specified

n.d. = not detected

The product meets the current version of the analytical (170.001_03_AS) and of the general (170.001_09_S) specification.

date of analysis: 2023.06.27

This computerized CoA has digital signature validated by Nature's Gift



Digitally signed by Anja
Cawelius
Reason: Quality Control
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