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Certificate of Analysis: Raspberry Seed CO₂, *Rubus idaeus*, organically grown in Chile, CO₂ extracted in Germany.

Batch No: GE-161121

Lab No: 20873

Type No: 162.004 / DE-ÖKO-013

Raw material: *Rubus idaeus*, dried seeds organically grown in Chile

Country of origin of product: Germany

D/E - ratio: 7,5–8,3 kg raw material which yields 1 kg product

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

Production: May 2016

Retest: May 2018

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

Analytical Check

Feature	Method	Limits	Value/Unit
Fatty acid composition:			
Palmitic Acid C16:0	21.156.02, GCFID	n.s.	2,2 %
Palmitoleic Acid C16:1 w7	21.156.02, GCFID	n.s.	0,10 %
Stearic Acid C18:0	21.156.02, GCFID	n.s.	0,95 %
Oleic Acid C18:1 w9	21.156.02, GCFID	n.s.	13,1 %
Vaccenic Acid C18:1 w7	21.156.02, GCFID	n.s.	0,55 %
Linoleic Acid C18:2 w6	21.156.02, GCFID	48 - 63	58,7 %
alpha Linolenic acid C18:3 w3	21.156.02, GCFID	23 - 30	24,0 %
Arachidic Acid C20:0	21.156.02, GCFID	n.s.	0,44 %
Fat numbers:			
Peroxide Value	21.015.02, DGF, Wheeler	< 10	4,5 meq O ₂ /kg
Acid value	21.016.02, DGF	< 20	3,1 mg KOH/g
Sum of Tocopherols (calc. as alpha Tocopherol)	21.113.02, HPLC	n.s.	0,20 %
Sum of Tocotrienols	21.113.02, HPLC	n.s.	0,019 %
Refractive index (20°C)	Abbe-Refractometer	1,470 - 1,495	1,4815
Density (20°C)	21.024.02, Pycnometer	0,915 - 0,940	0,9256 g/cm ³

n.s. = not specified

n.d. = not detected

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.

The product meets specifications no. 16.563.01; date of analysis: 2016.06.03

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