

Nature's Gift®

Balancing Body, Mind and Spirit
with Pure Essential Oils Since 1995

316 Old Hickory Blvd East, Madison, TN 37115
Tel (615)612-4270 fax (615)860-9171
sold@naturesgift.com

www.naturesgift.com

Certificate of Analysis

Raspberry Seed CO2 Total

Batch #GE-59093

production: January 2020 retest: January 2022
raw material: *Rubus idaeus* - Seeds, dried (from organic farming)
country of origin of raw material: Poland
country of origin of product: Germany
D/E - ratio: 8,3 - 12,5 kg raw material yield 1 kg product.

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

Sensory Check

| feature | reference | result |
|-------------|---------------------|--------|
| Appearance: | yellow to brown oil | meets |

Analytical Check

| feature | method | limits | value | unit |
|--|-------------------------|---------|-------|-----------|
| Fatty acid composition: | | | | |
| Palmitic Acid C16:0 | 21.156.03, GCFID | n.s. | 2,8 | % |
| Palmitoleic Acid C16:1 w7 | 21.156.03, GCFID | n.s. | 0,13 | % |
| Stearic Acid C18:0 | 21.156.03, GCFID | n.s. | 0,84 | % |
| Oleic Acid C18:1 w9 | 21.156.03, GCFID | n.s. | 11,6 | % |
| Vaccenic Acid C18:1 w7 | 21.156.03, GCFID | n.s. | 0,49 | % |
| Linoleic Acid C18:2 w6 | 21.156.03, GCFID | 48 - 63 | 53,8 | % |
| alpha Linolenic acid C18:3 w3 | 21.156.03, GCFID | 23 - 30 | 29,9 | % |
| Arachidic Acid C20:0 | 21.156.03, GCFID | n.s. | 0,39 | % |
| Total fat | | | | |
| Saturated fatty acids | DGF method, C-VI 10b | n.s. | 100,0 | % |
| Monounsaturated fatty acids | DGF method, C-VI 10b | n.s. | 4,0 | % |
| Polyunsaturated fatty acids | DGF method, C-VI 10b | n.s. | 12,3 | % |
| Fat numbers: | | | | |
| Peroxide Value | 21.015.03, DGF, Wheeler | < 10 | 3,4 | meq O2/kg |
| Acid value | 21.016.03, DGF | < 20 | 9,4 | mg KOH/g |
| Sum of Tocopherols (calc. as alpha Tocopherol) | | | | |
| Sum of Tocopherols | 21.113.03, HPLC | n.s. | 0,40 | % |
| Sum of Tocotrienols | 21.113.03, HPLC | n.s. | 0,043 | % |

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

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| feature | method | limits | value unit |
|---|----------------------------------|----------------------|--------------------------|
| aw-value | LabSwift aw-value Measurement | < 0,7 0,603 (23,8°C) | |
| Refractive index (20°C) | 21.080.03, Abbe-Refractometer | 1,470 - 1,495 | 1,4810 |
| Density (20°C) | 21.024.03, Pycnometer | 0,915 - 0,940 | 0,9255 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

Digitally signed by Anja Cawellius
Reason: Quality Control
Date: 2020.01.21 16:05:24 +01'00'

The product meets specifications no. 162.004_02_AS and 66.525.02; date of analysis:
2020.01.21

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.