

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

Amaranth Seed CO2-to extract (organic)

Batch #GE-59067

production: November 2019 retest: November 2021
raw material: *Amaranthus caudatus* - Seed, dried, from organic farming
country of origin of rawmaterial: India
country of origin of product: Germany
D/E - ratio: 20 - 27 kg raw material yield 1 kg product.

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

Sensory Check

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

Analytical Check

| feature | method | limits | value | unit |
|-------------------------------|-------------------------|---------|-------|-----------|
| Fatty acid composition: | | | | |
| Palmitic Acid C16:0 | 21.156.03, GCFID | n.s. | 20,3 | % |
| Palmitoleic Acid C16:1 w7 | 21.156.03, GCFID | n.s. | 0,22 | % |
| Stearic Acid C18:0 | 21.156.03, GCFID | n.s. | 3,6 | % |
| Oleic Acid C18:1 w9 | 21.156.03, GCFID | 20 - 35 | 23,0 | % |
| Vaccenic Acid C18:1 w7 | 21.156.03, GCFID | n.s. | 1,1 | % |
| Linoleic Acid C18:2 w6 | 21.156.03, GCFID | 40 - 55 | 50,0 | % |
| alpha Linolenic acid C18:3 w3 | 21.156.03, GCFID | n.s. | 1,1 | % |
| Arachidic Acid C20:0 | 21.156.03, GCFID | n.s. | 0,79 | % |
| Total fat | | | | |
| Total fat | DGF method, C-VI 10b | n.s. | 100,0 | % |
| Saturated fatty acids | DGF method, C-VI 10b | n.s. | 24,7 | % |
| Monounsaturated fatty acids | DGF method, C-VI 10b | n.s. | 24,3 | % |
| Polyunsaturated fatty acids | DGF method, C-VI 10b | n.s. | 51,1 | % |
| Fat numbers: | | | | |
| Unsaponifiables | 21.020.03, DGF | n.s. | 12,0 | % |
| Peroxide Value | 21.015.03, DGF, Wheeler | < 10 | 3,7 | meq O2/kg |
| Acid value | 21.016.03, DGF | < 25 | 15,4 | mg KOH/g |
| Saponification value | 21.017.02, DGF | n.s. | 178 | mg KOH/g |
| Ester value | = SV - AV | n.s. | 163 | mg KOH/g |
| Squalene | 21.180.02, GCFID | > 5 | 7,0 | % |

n.s. = not specified

n.d. = not detected

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|--|--------------------------------|----------------------|----------------|
| Sitosterol | 21.132.03, GCFID | n.s. | 0,22 % |
| Other Sterols | 21.132.03, GCFID | n.s. | 0,34 % |
| Sum of Sterols (calc. as Sitosterol) | 21.132.03, GCFID | n.s. | 0,59 % |
| gamma Tocopherol | 21.113.03, HPLC | n.s. | 0,051 % |
| alpha / delta Tocopherol | 21.113.03, HPLC | n.s. | 0,015/ 0,017 % |
| Sum of Tocopherols (calc. as alpha Tocopherol) | 21.113.03, HPLC | n.s. | 0,082 % |
| aw-value | LabSwift aw-value Measurement | < 0,8 0,73 (23,5 °C) | |
| Content of water | 21.220.01, Karl Fischer method | n.s. | 0,21 % |
| Benzo(a)pyrene | 21.177.02, GCMS | n.s. | 0,00030 ppm |
| Sum of benzo(a)pyrene, benzo(a)anthracene, benzo(b)fluoranthene and chrysene | 21.177.02, GCMS | n.s. | 0,019 ppm |

n.s. = not specified

n.d. = not detected

Digitally signed by Anja Cavellius
Reason: Quality Control
Date: 2019.11.12 17:38:11 +01'00'

The product meets specifications no. 168.002_04_AS and 66.279.06; date of analysis: 2019.11.12
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.