



Healing Body, Mind and Spirit
With Pure Essential Oils Since 1995

www.naturesgift.com

316 Old Hickory Blvd East
Madison, TN 37115
Tel(615)612-4270 fax (615)860-9171

orderdesk@naturesgift.com

Certificate of Analysis

Amaranth Seed CO2

Batch #PE-271404

type no. 168.002
lab no. 23867
production: November 2017 retest: November 2019
raw material: *Amaranthus caudatus* - Seed, dried, from organic farming
country of origin of raw material: Peru
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.	18,7 %
Palmitoleic Acid C16:1 w7	21.156.03, GCFID	n.s.	0,08 %
Stearic Acid C18:0	21.156.03, GCFID	n.s.	4,0 %
Oleic Acid C18:1 w9	21.156.03, GCFID	20 - 35	27,9 %
Vaccenic Acid C18:1 w7	21.156.03, GCFID	n.s.	0,56 %
Linoleic Acid C18:2 w6	21.156.03, GCFID	40 - 55	47,2 %
alpha Linolenic acid C18:3 w3	21.156.03, GCFID	n.s.	0,62 %
Arachidic Acid C20:0	21.156.03, GCFID	n.s.	0,93 %
Fat numbers:			
Unsaponifiables	21.020.03, DGF	n.s.	10,9 %
Peroxide Value	21.015.03, DGF, Wheeler	< 10	< 1 meq O2/kg
Acid value	21.016.03, DGF	< 25	4,6 mg KOH/g
Saponification value	21.017.02, DGF	n.s.	176 mg KOH/g
Ester value	= SV - AV	n.s.	171 mg KOH/g
Squalene	21.180.02, GCFID	> 5	6,6 %
Sitosterol	21.132.03, GCFID	n.s.	0,61 %
other Sterols	21.132.03, GCFID	n.s.	1,6 %
Sum of Sterols (calc. as Sitosterol)	21.132.03, GCFID	n.s.	2,2 %
gamma Tocopherol	21.113.03, HPLC	n.s.	0,04 %
alpha / delta Tocopherol	21.113.03, HPLC	n.s.	0,007/0,01 %
Sum of Tocopherols (calc. as alpha Tocopherol)	21.113.03, HPLC	n.s.	0,06 %

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



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feature	method	limits	value unit
Content of water	21.220.01, Karl Fischer method	n.s.	0,19 %
aw-value	LabSwift aw-value Measurement	n.s.	0,724/ 23,8°C

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

Storage conditions: Store in a cool, dry place!

The product meets specifications no. 16.279.03/66.279.04; date of analysis: 2017.11.24

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.