



Healing Body, Mind, and Spirit  
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## Certificate of Analysis

### Amaranth Seed CO<sub>2</sub> Extract *Amaranthus caudatus*

Batch # GE-661222

Organically grown in India, CO<sub>2</sub> extracted in Germany

**Lab No:** 22340  
**Type No :** 168.002  
**Raw Material:** *Amaranthus caudatus* – Seeds, dried  
**Country of Origin raw material:** India  
**D/E – ratio:** 20-27 kg raw material yields 1kg product  
**Product contains:** Rosemary Antioxidant Extract (organic) 0.1%  
**Production:** February 2017  
**Retest:** February 2019  
**Storage:** Store in a cool, dry place and exclusion of light

### 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	19,6	%
Palmitoleic Acid C16:1 w7.	21.156.03, GCFID	n.s	0,11	%
Stearic Acid C18:0.	21.156.03, GCFID	n.s	3,2	%
Oleic Acid C18:1 w9	21.156.03, GCFID	20 - 35	23,0	%
Vaccenic Acid C18:1 w7.	21.156.03, GCFID	n.s	0,60	%
Linoleic Acid C18:2 w6	21.156.03, GCFID	40 - 55	52,2	%
alpha Linolenic acid C18:3 w3	21.156.03, GCFID	n.s.	0,75	%
Arachidic Acid C20:0	21.156.03, GCFID	n.s.	0,65	%
Fat numbers:				%
Unsaponifiables	21.020.03, DGF	n.s.	11,2	%
Peroxide Value	21.015.03, DGF, Wheeler	< 10	2,9	meq O2/kg



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Acid value	21.016.03, DGF	< 25	9,4	mg KOH/g
Saponification value	21.017.02, DGF	n.s.	168	mg KOH/g
Ester value	= SV - AV	n.s.	159	mg KOH/g
Squalene	21.157.01, GCFID	> 5	6,0	%
Sitosterol	21.132.02, GCFID	n.s.	0,93	%
other Sterols	21.132.02, GCFID	n.s.	2,1	%
Sum of Sterols (calc. as Sitosterol)	21.132.02, GCFID	n.s.	3,0	%
gamma Tocopherol	21.113.02, HPLC	n.s.	0,043	%
alpha / delta Tocopherol	21.113.02, HPLC	n.s.	0,020 / 0,016	%
Sum of Tocopherols (calc. as alpha Tocopherol)	21.113.02, HPLC	n.s.	0,08	%

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 guarantee 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. 16.279.03/66.279.04; date of analysis: 2017.02.14