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Certificate of Analysis: Amaranth Seed CO₂, *Amaranthus caudatus*, organic seeds from India, extracted in Germany.

Batch No: GE-051208

Lab No: 19220

Type No: 168.002, DE-ÖKO-013

D/E - ratio: 19 - 20 kg raw material yield 1 kg product.

Product contains: Rosemary Antioxidant Extract (organic)

Production: July 2015, Retest: July 2017

Date of analysis: 2015.08.14

Sensory Check

feature	reference	result
Appearance:	yellow oil	meets

Analytical Check

feature	method	limits	value/unit
Fatty acid composition:			
Palmitic Acid C16:0	21.156.02, GCFID	n.s.	19,1 %
Palmitoleic Acid C16:1 w7	21.156.02, GCFID	n.s.	0,12 %
Stearic Acid C18:0	21.156.02, GCFID	n.s.	4,2 %
Oleic Acid C18:1 w9	21.156.02, GCFID	20 - 35	23,2 %
Vaccenic Acid C18:1 w7	21.156.02, GCFID	n.s.	0,95 %
Linoleic Acid C18:2 w6	21.156.02, GCFID	40 - 55	51,2 %
alpha Linolenic acid C18:3 w3	21.156.02, GCFID	n.s.	0,90 %
Arachidic Acid C20:0	21.156.02, GCFID	n.s.	0,42 %
Fat numbers:			
Unsaponifiables	21.020.02, DGF	n.s.	11,5 %
Peroxide Value	21.015.02, DGF, Wheeler	< 10	2,4 meq O ₂ /kg
Acid value	21.016.02, DGF	< 25	3,2 mg KOH/g
Saponification value	21.017.01, DGF	n.s.	174 mg KOH/g
Ester value	= SV - AV	n.s.	171 mg KOH/g
Squalene	21.157.01, GCFID	> 5	6,6 %
Sitosterol	21.132.02, GCFID	n.s.	0,93 %
other Sterols	21.132.02, GCFID	n.s.	1,92 %
Sum of Sterols (calc. as Sitosterol)	21.132.02, GCFID	n.s.	2,9 %
gamma Tocopherol	21.113.02, HPLC	n.s.	0,044 %
alpha / delta Tocopherol	21.113.02, HPLC	n.s.	0,023 / 0,013 %
Sum of Tocopherols (calc. as alpha Tocopherol)	21.113.02, HPLC	n.s.	0,080 %

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

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