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Certificate of Analysis: Chia Seed (Spanish Sage) CO₂, *Salvia hispanica*, organic seeds from Peru, CO₂ extracted in Germany.

Batch No: GE-651012

Type No: 165.002, DE-ÖKO-013

Lab No: 18167

Production: February 2015, retest: February 2017

Date of Analysis: 02.05.2015

The product meets specifications no. 16.482.01/66.401.01;

D/E - ratio: 3,1 - 3,6 kg raw material yield 1 kg product.

Sensory Check

Feature	Reference	Result
Appearance:	Yellow-orange, clear oil	meets

Analytical Check

Feature	Method	Limits	Value	Unit
Fatty acid composition:				
Palmitic Acid C16:0	21.156.02, GCFID	n.s.	6,0	%
Palmitoleic Acid C16:1 w7	21.156.02, GCFID	n.s.	0,07	%
Stearic Acid C18:0	21.156.02, GCFID	n.s.	3,4	%
Oleic Acid C18:1 w9	21.156.02, GCFID	n.s.	7,3	%
Vaccenic Acid C18:1 w7	21.156.02, GCFID	n.s.	0,51	%
Linoleic Acid C18:2 w6	21.156.02, GCFID	15 - 25	18,8	%
alpha Linolenic acid C18:3 w3	21.156.02, GCFID	> 60	63,8	%
Arachidic Acid C20:0	21.156.02, GCFID	n.s.	0,14	%
Fat numbers:				
Unsaponifiables	21.020.02, DGF	n.s.		%
Peroxide Value	21.015.02, DGF, Wheeler	< 15	8,3	meq O ₂ /kg
Acid value	21.016.02, DGF	< 5	0,9	mg KOH/g
Saponification value	21.017.01, DGF	n.s.	190	mg KOH/g
Ester value	= SV - AV	n.s.	189	mg KOH/g
Sum of Tocopherols (calc. as alpha Tocopherol)	21.113.02, HPLC	n.s.	0,032	%
Sum of Sterols (calc. as Sitosterol)	21.132.02, GCFID	n.s.	0,64	%
Content of water	Karl Fischer Titr.	n.s.	0,10	%
Refractive index (20°C)	Abbe-Refractometer	1,480 - 1,486	1,4844	
Density (20°C)	21.024.02, Pycnometer	0,920 - 0,935	0,9284	g/cm ³

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

Storage conditions: Store in a cool, dry place and under inert gas.

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