



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

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Certificate of Analysis: Wheat Bran CO₂ Total, *Triticum vulgare*, organically grown bran and CO₂ extracted in Germany.

Batch No: GE-471014

Lab No: 22467

Type No: 180.003 / DE-ÖKO-013

D/E - ratio: 26–33 kg raw material which yields 1 kg product

Product contains: 0.1% Organic Rosemary Antioxidant Extract

Production: March 2017

Retest: March 2019

Storage: Store in a cool, dry place.

Sensory Check

Feature	Reference	Result
Appearance	Orange-yellow oil with some precipitation depending on temperature	meets

Analytical Check

Feature	Method	Limits	Value Unit
Fatty acid composition:			
Palmitic Acid C16:0	21.156.03, GCFID	n.s.	17,0 %
Palmitoleic Acid C16:1 w7	21.156.03, GCFID	n.s.	0,30 %
Stearic Acid C18:0	21.156.03, GCFID	n.s.	0,91 %
Oleic Acid C18:1 w9	21.156.03, GCFID	14 - 21	15,3 %
Vaccenic Acid C18:1 w7	21.156.03, GCFID	n.s.	0,60 %
Linoleic Acid C18:2 w6	21.156.03, GCFID	50 - 65	60,3 %
alpha Linolenic acid C18:3 w3	21.156.03, GCFID	n.s.	5,5 %
Arachidic Acid C20:0	21.156.03, GCFID	n.s.	0,14 %
Fat numbers:			
Peroxide Value	21.015.03, DGF, Wheeler	< 15	2,9 meq O ₂ /kg
Acid value	21.016.03, DGF	n.s.	32,9 mg KOH/g
Saponification value	21.017.02, DGF	n.s.	180 mg KOH/g
Ester value	= SV - AV	n.s.	147 mg KOH/g
Unsaponifiables	21.020.03, DGF	3 - 8	5,6 %
Sum of Sterols (calc. as Sitosterol)	21.132.02, GCFID	> 2	3,5 %
Sum of Tocopherols (calc. as alpha Tocopherol)	21.113.02, HPLC	n.s.	1,2 %
Content of water	21.220.01, Karl Fischer method	< 1	0,32 %
Content of Alcyresorcinols (calc. as 5-Pentadecylresorcinol)	21.183.01, HPLC	n.s.	0,49 %
Aflatoxins	21.193.02, HPLC	EC No. 1881/2006, EC No. 165/2010	0,13 ppb
Ochratoxin A	21.197.01, HPLC	EC No. 1881/2006, EC No. 594/2012	0,72 ppb
Benzo(a)pyrene	GCMS	EC No. 1881/2006, EC No. 1933/2015	n.d.
Sum of benzo(a)pyrene, benz(a)anthracene, benzo(b)fluoranthene and chrysene	GCMS	EC No. 1881/2006, EC No. 1933/2015	0,0025 ppm

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

The product meets specifications no. 16.427.02/66.333.03; date of analysis: 2017.03.14

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.

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