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Certificate of Analysis: Rosemary Antioxidant Extract, *Rosmarinus officinalis*, Germany.

Batch No: GE-861106

Lab No: 20699

Type No: 027.010 / 14% Diterpene Phenols / DE-ÖKO-013

Raw material: Rosmarinus officinalis dried leaves from organic farming in Greece, Spain, Morocco

Country of origin of product: Germany

D/E - ratio: 5,0-7,1 kg raw material which yields 1 kg product

Product contains: about 60% organic sunflower oil

Production: May 2016 Retest: May 2021

Storage: Store in a cool, dry place.

Sensory Check

Feature	Reference	Result
Appearance	Dark brown, viscous liquid (at room temperature)	meets
Odor	Weak odor	meets

Analytical Check

21.028.05, HPLC	n.s.	0.04.0/
		0,04 %
21.028.05, HPLC	n.s.	0,07 %
21.028.05, HPLC	n.s.	0,42 %
21.028.05, HPLC	> 9	12,7 %
21.028.05, HPLC	n.s.	0,19 %
21.028.05, HPLC	13 - 15	13,4 %
) 21.028.05, HPLC	7 - 10	8,7 %
21.028.05, HPLC	n.s.	0,36 %
21.028.05, HPLC	n.s.	0,09 %
21.028.05, HPLC	n.s.	0,02 %
21.006.01, Steam distillation	< 2	1,9 % (g/ 100g
Karl Fischer method	< 1	0,52 %
21.025.02, GCFID	< 2	0,96 %
	21.028.05, HPLC 21.028.05, HPLC 21.028.05, HPLC 31.028.05, HPLC 21.028.05, HPLC 21.028.05, HPLC 21.028.05, HPLC 21.028.05, HPLC 21.006.01, Steam distillation Karl Fischer method	21.028.05, HPLC n.s. 21.028.05, HPLC > 9 21.028.05, HPLC n.s. 21.028.05, HPLC 13 - 15 1) 21.028.05, HPLC 7 - 10 21.028.05, HPLC n.s. 21.028.05, HPLC n.s. 21.028.05, HPLC n.s. 21.028.05, HPLC n.s. 21.028.05, HPLC cn.s. 21.028.05, HPLC n.s. 21.028.05, HPLC n.s. 21.028.05, HPLC n.s.

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

Antioxidative activity compared with 500 ppm alpha tocopherol (Rancimat test in lard at 120°C and 15 Liter/ hour air flow)

Dosage Rosemary Antioxidant Relation to 500 ppm alpha tocopherol

200 ppm same activity

500 ppm 1,3 times stronger activity



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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.

The product meets specifications no. 16.166.06/66.165.07; date of analysis: 2016.05.06