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Certificate of Analysis: Marjoram Leaf CO₂ Select, *Origanum majorana*, organically grown leaves from Turkey, extracted in Germany.

Batch No: GE-641018

Lab No: 18621

Type No: 004.001

Raw material: *Origanum majorana* — dried leaves from Turkey

Country of origin of product: Germany

D/E - ratio: 50–58 kg raw material yields 1 kg product

Production: February 2015

Retest: February 2020

Storage: Store in a cool, dry place and exclusion of light.

Sensory Check

Feature	Reference	Result
Appearance	pale brown liquid	meets
Odor	characteristic	meets

Analytical Check

Feature	Method	Limits	Value/Unit
Content of essential oil	21.006.01, Distillation, gravimetric	75 - 85	83,2 % (g/ 100g)
Composition of the volatile compounds in extract:	GCMS, 100 % Method		
Sabinene	GCMS, marjoran.met	< 10	3,2 %
Sabinene Hydrate cis + trans	GCMS, marjoran.met	30 - 60	49,1 %
Terpinene-4-ol	GCMS, marjoran.met	< 25	9,9 %
Sabinene Hydrate Acetate	GCMS, marjoran.met	10 - 25	12,4 %
Refractive index (20°C)	Abbe-Refractometer	1,464 - 1,474	1,4686
Density (20°C)	21.024.02, Pycnometer	0,900 - 0,930	0,915 g/cm ³

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 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. 16.152.06/66.116.05; date of analysis: 2015.02.20