
Certificate of Analysis

Marjoram Leaf CO₂-se extract, type no. 004.001

batch no. 641018, lab no. 18261

production: February 2015

retest: February 2020

raw material: *Origanum majorana* - Leaves, dried
country of origin of raw material: Turkey
country of origin of product: Germany
D/E - ratio: 50 - 58 kg raw material yield 1 kg product.
Certification:



Sensory Check

feature	reference	result
Appearance:	pale brown liquid	meets
Odour:	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

Storage conditions: Store in a cool, dry place!

Digitally signed by Anja Cawelius
Reason: Quality control
Date: 2015.02.24 14:54:03 +01'00'

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.
