



Certificate of Analysis

Marjoram Leaf CO2-se extract

Art. No. CO2-MARJ-05 | CO2-MARJ-10

batch no. : 091.409, lab no. 28699
 production : February 2020 - Retest: February 2025
 raw material : *Origanum majorana* - Leafs, dried
 country of origin of raw material : Germany
 country of origin of product : Germany
 D/E - ratio : 40 - 83 kg raw material yield 1 kg product

Sensory Check

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feature	reference	result
Appearance:	Yellow to pal brown liquid	meets
Odour:	Characteristic	meets

Analytical Check

feature	method	limits	value	unit
Content of essential	21.006.01, Distillation gravimetric	60-80	73,0	% (g/100g)
Composition of the volatile compounds	GCMS, 100% method			
Sabinene	GCMS, 21.139.03	< 10	3,7	%
Sabinene hydrate cis + trans	GCMS, 21.139.03	30-60	34,9 (27,6+7,3)	%
Terpinene-4-ol	GCMS, 21.139.03	< 25	13,1	%
Sabinene hydrate Acetate cis + trans	GCMS, 21.139.03	10-30	17,9 (17,5+0,41)	%
Refractive index (20°C)	21.080.03, Abbe Refractometer	1,464-1,474	1,4685	
Density (20°C)	21.024.03, Pycnometer	0,900-0,930	0,9193	g/m3
Monitoring of substance*:				
Estragole (= Methyl chavicol)	GCMS	n.s.	< 0,01	%
Camphor	GCMS	n.s.	< 0,01	%

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

The product meets specification no. 004.001_08_AS and 66.116.07

Date of analysis: 2020.02.03

This computerized CoA has digital signature validated by MANUFACTURER QC.

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.