

Certificate of Analysis

KLBD (HALL)

Marjoram Leaf CO2-se extract

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

batch no. : 512201, lab no. 33325

production : February 2022 - Retest: February 2027 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

Product contains : no carriers and excipients

Sensory Check Page 1 of 2

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

Analytical Check

feature	method	limits	value	unit
Content of essential	21.006.01, Distillation gravimetric	60-80	75,3,0	% (g/100g)
Composition of the volatile compounds	GCMS, 100% method			
Sabinene	GCMS, 21.139.03	< 10	3,8	%
Sabinene hydrate cis + trans	GCMS, 21.139.03	30-60	32,5 (27,6+4,9)	%
Terpinene-4-ol	GCMS, 21.139.03	< 25	8,2	%
Sabinene hydrate Acetate cis + trans	GCMS, 21.139.03	10-30	30,0 (29,7+0,3)	%
Refractive index (20°C)	21.080.03, Abbe Refractometer	1,464-1,474	1,4663	
Density (20°C)	21.024.03, Pycnometer	0,900-0,930	0,9222	g/m3
Monitoring of substance*:				
Estragole (= Methyl chavicol)	GCMS	n.s.	n.d. (< 1)	ppm
Camphor	GCMS	n.s.	n.d. (< 0,01)	%
Methyleugenol in extract	GCMS, quantitative	n.s.	27	ppm
Ochratoxin A	21.197.02, HPLC	EC no. 1881/2006	n.d. (0,01)	ppb

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

The product meets the current version of the analytical (004.001_08_AS) and of the general (004.001_09_S) specification.

Date of analysis: 2022.02.09

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. For further product-relevant substances, see IFRA list and cosmetic allergen list

^{*} Substances that are limited or for which monitoring must be available as specified in the "Arrêté du Juin 2014" to define the plants that may be used in food supplements