



Healing Body, Mind, and Spirit  
with Pure Essential Oils Since 1995

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**Certificate of Analysis:** Turmeric CO<sub>2</sub>, *Curcuma longa*, organically grown in Indonesia and CO<sub>2</sub> extracted in Germany.

Batch No: GE-861007

Lab No: 22565

Type No: 094.005 / DE-ÖKO-013

Raw material: *Curcuma longa* – Rhizome, dried, from organic farming

D/E - ratio: 18–25 kg raw material which yields 1 kg product

Production: April 2017

Retest: April 2022

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

#### Sensory Check

Feature	Reference	Result
Appearance	Yellow-orange clear to slightly turbid liquid oil	meets
Odor	Typical smell	meets

#### Analytical Check

Feature	Method	Limits	Value/Unit
Content of essential oil	21.006.01, Distillation, gravimetric	70 - 90	81,8 % (g/100g)
Content of Curcumin	21.121.02, HPLC	< 0,5	0,16 %
Volatile components: extract, quantitative:			
ar-Turmerone	21.206.02, GCFID	n.s.	27,8 %
alpha-Turmerone	21.206.02, GCFID	n.s.	26,5 %
beta-Turmerone	21.206.02, GCFID	n.s.	19,4 %
Sum of Turmerones (ar-, alpha- and beta-T.)	21.206.02, GCFID	> 48	73,7 %
Content of water	21.220.01, Karl Fischer method	n.s.	0,82 %
Refractive index (20°C)	21.080.03, Abbe-Refractometer	1,510 - 1,580	1,5145
Density (20°C)	21.024.03, Pycnometer	n.s.	0,9532 g/cm <sup>3</sup>
Aflatoxins	21.193.02, HPLC	EC No. 1881/2006, EC No. 165/2010	1,3 ppb
Ochratoxin A	21.197.01, HPLC	EC No. 1881/2006, EC No. 594/2012	1,1 ppb
Pesticides	analyzed by Covance	UP/EP	meets
Monitoring of substances*:			
1,8 Cineol	GCMS	n.s.	0,67 %
Camphor	GCMS	n.s.	n.d.

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

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\*monitored according to "Belfrit Botanical List"

The product meets specifications no. 16.227.03/66.190.03; date of analysis: 2017.04.04

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.