



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*

Batch # GE-261501

**Lab No:** 22724  
**Type No :** 094.005  
**Raw Material:** *Curcuma Longa* – Rhizome, dried, from organic farming  
**Country of Origin, raw material:** India  
**Country of origin of product:** Germany  
**D/E - ratio:** 18 - 25 kg raw material yield 1 kg product  
**Production:** Apr 2017  
**Retest:** Apr 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
Odour:	typical smell	meets

### Analytical Check

Feature	Method	Limits	Value	Unit
Content of essential oil	21.006.01, Distillation, gravimetric	70 - 90	86,9	% (g/ 100g)
Content of Curcumin	21.121.02, HPLC	< 0,5	0,092	%
Volatile components: extract, quantitative:				
ar-Turmerone	21.206.02, GCFID	n.s.	25,0	%
alpha-Turmerone	21.206.02, GCFID	n.s.	23,3	%
beta-Turmerone	21.206.02, GCFID	n.s.	15,7	%
Sum of Turmerones (ar-, alpha- und beta-T.)	21.206.02, GCFID	> 48	64,0	%
Content of water	21.220.01, Karl Fischer method	n.s.	0,36	%
Refractive index (20°C)	21.080.03,	1,510 - 1,580	1,5120	



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	Abbe-Refractometer			
Density (20°C)	21.024.03, Pycnometer	n.s.	0,9397	g/cm <sup>3</sup>
Aflatoxine B1	21.193.02, HPLC	EC No. 1881/2006, EC No. 165/2010	0,28	ppb
Total Aflatoxines B1,B2,G1,G2	21.193.02, HPLC	EC No. 1881/2006, EC No. 165/2010	0,89	ppb
Ochratoxin A	21.193.02, HPLC	EC No. 1881/2006, EC No. 594/2012	8,2	ppb
Pesticides	analysed by Covance	UP/EP	meets	
Monitoring of substances*:				
1,8 Cineol	GCMS	n.s.	0,99	%
Camphor	GCMS	n.s.	n.d.	%

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 guarantee 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. 16.227.03/66.190.04; date of analysis: 2017.05.09.