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Certificate of Analysis: Turmeric CO₂, *Curcuma longa*, organically grown in India, CO₂ extracted in Germany.

Batch No: GE-741114

Lab No: 19330

Type No: 094.005 / DE-ÖKO-013

Raw material: Curcuma longa, rhizome dried, from organic farming, India

Country of origin of product: Germany

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

Production: August 2015

Retest: August 2020

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	84,4% (g/100g)
Content of Curcumin	21.121.01, HPLC	< 0,5	0,13%
Volatile components extract, quantitative:			
ar-Turmerone	21.206.01, GCFID	n.s.	25,9%
alpha-Turmerone	21.206.01, GCFID	n.s.	20,7%
beta-Turmerone	21.206.01, GCFID	n.s.	15,6%
Sum of Turmerones (ar-, alpha- und beta-T.)	21.206.01, GCFID	> 48	62,3%
Content of water	Karl Fischer method	n.s.	0,49%
Refractive index (20°C)	Abbe-Refractometer	1,510-1,580	1,5144
Density (20°C)	21.024.02, Pycnometer	n.s.	0,9428 g/cm ³
Aflatoxins	21.193.02, HPLC	EC No. 1881/2006, EC No. 165/2010	meets
Ochratoxin A	21.197.01, HPLC	EC No. 1881/2006, EC No. 594/2012	meets
Pesticides		UP/EP	meets

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 guaranty 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. 16.227.03/66.190.03; date of analysis: 2015.09.22

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