



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

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**Certificate of Analysis:** Cocoa CO<sub>2</sub>, *Theobroma cacao*, grown and CO<sub>2</sub> extracted in Germany.

Batch No: GE-661104

Lab No: 21478

Type No: 093.001

Raw material: *Theobroma cacao* — cocoa beans

Country of origin of product: Germany

D/E - ratio: 19–21 kg raw material which yields 1 kg product

Production: September 2016

Retest: September 2021

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

Sensory Check

Feature	Reference	Result
Appearance	At room temperature white to light brown solid product, at 40°C liquid oil	meets
Odor	Typical sweet cocoa smell	meets

Analytical Check

Feature	Method	Limits	Value/Unit
Content of essential oil	21.006.01, Distillation, gravimetric	n.s.	0,95 % (g/ 100g)
Fatty acid composition:			
Palmitic Acid C16:0	21.156.02, GCFID	n.s.	34,0 %
Palmitoleic Acid C16:1 w7	21.156.02, GCFID	n.s.	0,58 %
Stearic Acid C18:0	21.156.02, GCFID	n.s.	27,4 %
Oleic Acid C18:1 w9	21.156.02, GCFID	n.s.	31,5 %
Linoleic Acid C18:2 w6	21.156.02, GCFID	n.s.	5,6 %
Linolenic acid C18:3 w3	21.156.02, GCFID	n.s.	0,36 %
Arachidic Acid C20:0	21.156.02, GCFID	n.s.	0,59 %
Theobromin	21.144.02, HPLC	n.s.	0,06 %
Theophyllin	21.144.02, HPLC	n.s.	0,04 %
Coffein	21.144.02, HPLC	< = 7	6,3 %
GCMS fingerprint	GCMS, 100 % Method	Fingerprint	meets
Benzo(a)pyrene		< 5	0,06 ppb
Sum of benzo(a)pyrene, benz(a)anthracene, benzo(b)fluoranthene and chrysene		< 30	2 ppb

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

GCMS Fingerprint: Traces of volatile flavoring compounds: mainly esters, aldehydes, ketones, pyrazines, 2,2 butandiol, acetic acid, etc.

The product meets specifications no. 16.567.01/66.123.09; date of analysis: 2016.09.22

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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.

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