

# Nature's Gift<sup>®</sup>

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

316 Old Hickory Blvd East, Madison, TN 37115  
Tel (615)612-4270 fax (615)860-9171  
sold@naturesgift.com

www.naturesgift.com

## Certificate of Analysis

### Cocoa CO2

### Batch #GE-59125

production: September 2020      retest: September 2025  
raw material:                              *Theobroma cacao* - cocoa butter CO2-extract  
  
country of origin of product:      Germany  
D/E - ratio:                                19 - 21 kg raw material yield 1 kg product.

### Sensory Check

feature	reference	result
Appearance:	At room temperature white to light brown solid product, at 40° C liquid oil	meets
Odour:	typical sweet cocoa smell	meets

### Analytical Check

feature	method	limits	value	unit
Fatty acid composition:				
Palmitic Acid C16:0	21.156.03, GCFID	n.s.	34,5	%
Palmitoleic Acid C16:1 w7	21.156.03, GCFID	n.s.	0,36	%
Stearic Acid C18:0	21.156.03, GCFID	n.s.	27,2	%
Oleic Acid C18:1 w9	21.156.03, GCFID	n.s.	30,6	%
Linoleic Acid C18:2 w6	21.156.03, GCFID	n.s.	5,5	%
Linolenic acid C18:3 w3	21.156.03, GCFID	n.s.	0,36	%
Arachidic Acid C20:0	21.156.03, GCFID	n.s.	0,51	%
Theobromine	21.144.02, HPLC	n.s.	0,04	%
Theophylline	21.144.02, HPLC	n.s.	0,02	%
Caffeine	21.144.02, HPLC	< = 7	2,2	%
GCMS fingerprint	GCMS, 100 % Method	Fingerprint	meets	
Quantitative analysis of flavour compounds:				
2,3 Butanediol	GCMS, quantitative using Methyl decanoate: GCMS	> 0,1	0,12	%

n.s. = not specified

n.d. = not detected

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## Analytical Check

feature	method	limits	value	unit
Phenylethyl alcohol	GCMS	n.s.	0,01	%
Pyrazine, 2,6 dimethyl	GCMS	n.s.	0,0004	%
Tetramethyl pyrazine	GCMS	n.s.	0,011	%
Trimethyl pyrazine	GCMS	n.s.	0,0026	%
Other Pyrazines	GCMS	n.s.	0,0026	%
Sum of Pyrazines	GCMS	> 0,01	0,017	%
Ester (Ethyl laurate, Dodecanoic ethyl ester, Tetradecanoic acid ethyl ester)	GCMS	n.s.	0,048	%
Nonadecanone	GCMS	n.s.	0,085	%
Pentadecanone	GCMS	n.s.	0,022	%
Benzo(a)pyrene	21.177.02, GCMS	< 0,005	0,0009	ppm
Sum of benzo(a)pyrene, benz(a)anthracene, benzo(b)fluoranthene and chrysene	21.177.02, GCMS	< 0,030	0,026	ppm

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

Digitally signed by Anja Cawelius  
Reason: Quality Control  
Date: 2020.09.25 09:46:09 +02'00'

The product meets specifications no. 093.001\_01\_AS and 66.123.11; date of analysis: 2020.09.25  
This computerized CoA has digital signature validated by Nature's Gift Aromatherapy.

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.