

# Nature's Gift®

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

### Ginger Root CO2-to (organic)

Batch # GE-59207

production: August 2020      retest: August 2023  
raw material: *Zingiber officinale Roscoe* - Rhizome, dried, from organic  
country of origin of raw material: Nigeria  
country of origin of product: Germany  
D/E - ratio: 17 - 22 kg raw material yield 1 kg product.

### Sensory Check

feature	reference	result
Appearance:	clear, brown liquid oil	meets
Smell / Taste:	with pungent taste and characteristic smell	meets

### Analytical Check

feature	method	limits	value	unit
Content of essential oil	21.006.01, Distillation, gravimetric	30 - 50	39,5	% (g/ 100g)
Zingerone	21.027.05, HPLC	< 1	0,03	%
6-Gingerol	21.027.05, HPLC	14 - 20	15,6	%
8-Gingerol	21.027.05, HPLC	n.s.	3,6	%
6-Shogaol	21.027.05, HPLC	n.s.	1,5	%
10-Gingerol	21.027.05, HPLC	n.s.	5,2	%
8-Shogaol	21.027.05, HPLC	n.s.	0,26	%
10-Shogaol	21.027.05, HPLC	n.s.	0,16	%
Sum of Gingerols	21.027.05, HPLC	n.s.	24,5	%
Sum of Shogaols	21.027.05, HPLC	< 5	1,9	%
Sum of pungent compounds	21.027.05, HPLC	24 - 35	26,4	%

Relative composition of the essential oil: GCMS, 100 % Method

Neral/Geranial	GCMS, 21.225.01	n.s.	5,2 (1,8 + 3,4)	%
ar-Curcumene	GCMS, 21.225.01	n.s.	5,9	%
alpha Zingiberene	GCMS, 21.225.01	n.s.	34,4	%
alpha Farnesene	GCMS, 21.225.01	n.s.	9,1	%
beta Bisabolene	GCMS, 21.225.01	n.s.	6,6	%
Sesquiphellandrene	GCMS, 21.225.01	n.s.	13,5	%

n.s. = not specified

n.d. = not detected

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feature	method	limits	value	unit
Refractive index (20°C)	21.080.03, Abbe-Refractometer	1,500 - 1,520	1,5066	
Density (20°C)	21.024.03, Pycnometer	0,950 - 0,990	0,9711	g/cm <sup>3</sup>
Content of water	21.220.01, Karl Fischer method	n.s.	0,97	%
Aflatoxin B1	21.193.02, HPLC	EC No. 1881/2006	meets (1,3)	ppb
Total Aflatoxines B1,B2,G1,G2	21.193.02, HPLC	EC No. 1881/2006	meets (2,7)	ppb
Ochratoxin A	21.197.01, HPLC	EC No. 1881/2006	meets (0,36)	ppb
Pesticides		EC 396/2005 and BNN	meets	
Monitoring of substances*: Methyleugenol	GCMS	n.s.	n.d. (< 0,01)	%

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

\*Substances to be monitored according to "Arrêté du Juin 2014" laying down the list of plants, authorized in food supplements

The product meets specifications no. 014.018\_06\_AS and 66.219.05; date of analysis:  
2020.08.14

This computerized CoA has digital signature validated by Nature's Gift

Digitally signed by Anja Cawellius  
Reason: Quality Control  
Date: 2020.11.11 15:12:20 +01'00'

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.