



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

www.naturesgift.com

Certificate of Analysis: Ginger Select CO₂, *Zingiber officinalis*, organically dried rhizomes from Indonesia, CO₂ extracted in Germany.

Batch No: GE-861015

Lab No: 20329

Production: March 2016

Retest: March 2021

D/E ratio: 43 - 56 kg raw material yield 1 kg product.

Storage conditions: Store in a cool, dry place.

Sensory Check

Feature	Reference	Result
Appearance	clear, yellow liquid	meets
Odor	characteristic verbena citrus-like odor	meets

Analytical Check

Feature	Method	Limits	Value / Unit
Content of essential oil	21.006.01, Distillation, gravimetric	82 - 95	89,0 % (g/ 100g)
Composition of the volatile compounds:	GCMS, 100 % Method		
alpha Pinene	GCMS, ginger.met	n.s.	1,8 %
Camphene	GCMS, ginger.met	n.s.	7,2 %
beta Myrcene	GCMS, ginger.met	n.s.	0,96 %
Limonene	GCMS, ginger.met	n.s.	1,2 %
beta Phellandrene	GCMS, ginger.met	n.s.	0,96 %
1,8 Cineol	GCMS, ginger.met	n.s.	2,9 %
Neral/Geraniol	GCMS, ginger.met	< 9,0	6,0 (2,3/3,7) %
Geraniol	GCMS, ginger.met	n.s.	0,86 %
ar-Curcumene	GCMS, ginger.met	n.s.	17,8 %
alpha Zingiberene	GCMS, ginger.met	> 15,0	19,9 %
alpha Farnesene	GCMS, ginger.met	n.s.	5,0 %
beta Bisabolene	GCMS, ginger.met	n.s.	7,6 %
Sesquiphellandrene	GCMS, ginger.met	n.s.	13,1 %
Hexanal	GCMS, ginger.met	n.s.	n.d. %
Sum of Gingerols	21.027.04, HPLC	n.s.	1,1 %
Sum of Shogaols	21.027.04, HPLC	< 1,5	0,47 %
Sum of pungent compounds	21.027.04, HPLC	< 5 1	,6 %
Refractive index (20°C)	Abbe-Refractometer	1,4880 - 1,4950	1,4905
Density (20°C)	21.024.02, Pycnometer	0,875 - 0,890	0,8858 g/cm ³

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Feature	Method	Limits	Value / Unit
Monitoring of substances*:			
Methyleugenol	GCMS	n.s.	n.d. (< 0,001) %

n.s. = not specified

n.d. = not detected

- according to "Arrêté du Juin 2014" establishing the list of plant, authorized in food supplements

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