

CERTIFICATE OF ANALYSIS

Product: Ginger Organic Essential Oil  
 Lot No.: 50012 - A16,B16,C16,D16,E16,F16,G16,H16  
 Best Before: February, 2022

Store in an air tight containers; in a cool dry area; away from direct sunlight.

<u>Properties</u>	<u>Specifications</u>	<u>Results</u>
Appearance:	Pale yellow to yellow liquid.	Complies
Odor:	Characteristic spicy somewhat pungent ginger odor.	Complies
Solubility:	Miscible in fat soluble organic solvents and fatty oils. Insoluble in water.	Complies
Specific Gravity:	0.8680 to 0.8830 @ 30°C	0.8798
Optical Rotation:	-45° to -29° @ 27°C	-36.85°
Refractive Index:	1.4840 to 1.4920 @ 25°C	1.4880
α-Zingiberene:	29 - 37 %	33.84
Bisabolene:	4.0 - 9.0 %	7.55

**Disclaimer & Caution**

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CERTIFICATE OF ANALYSIS

Product: Ginger Organic Essential Oil  
 Lot No.: 50012 - A15,B15,C15,D15  
 Best Before: February, 2022  
 Store in an air tight containers; in a cool dry area; away from direct sunlight.

<u>Properties</u>	<u>Specifications</u>	<u>Results</u>
Appearance:	Pale yellow to yellow liquid.	Complies
Odor:	Characteristic spicy somewhat pungent ginger odor.	Complies
Solubility:	Miscible in fat soluble organic solvents and fatty oils. Insoluble in water.	Complies
Specific Gravity:	0.8680 to 0.8830 @ 30°C	0.8798
Optical Rotation:	-45° to -29° @ 27°C	-36.85°
Refractive Index:	1.4840 to 1.4920 @ 25°C	1.4880
α-Zingiberene:	29 - 37 %	33.84
Bisabolene:	4.0 - 9.0 %	7.55

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CERTIFICATE OF ANALYSIS

Product: Ginger Organic Essential Oil  
 Lot No.: 50012 - A14  
 Best Before: January, 2022  
 Store in an air tight containers; in a cool dry area; away from direct sunlight.

<u>Properties</u>	<u>Specifications</u>	<u>Results</u>
Appearance:	Pale yellow to yellow liquid.	Complies
Odor:	Characteristic spicy somewhat pungent ginger odor.	Complies
Solubility:	Miscible in fat soluble organic solvents and fatty oils. Insoluble in water.	Complies
Specific Gravity:	0.8680 to 0.8830 @ 30°C	0.885
Optical Rotation:	-45° to -29° @ 27°C	-35.42°
Refractive Index:	1.4840 to 1.4920 @ 25°C	1.4902
α-Zingiberene:	29 - 35 %	33.86
Bisabolene:	4.0 - 9.0 %	6.68

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