

## CERTIFICATE OF ANALYSIS

Product: Jojoba Clear Deodorized Carrier Oil -Verified by  
ECOCERT/Cosmos Approved

Lot No: 15014A10521

Best Before: September, 2023

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

<u>Properties</u>	<u>Specifications</u>	<u>Results</u>
Appearance:	Clear, colorless to very pale-yellow liquid.	Complies
Odor:	Characteristic neutral odor.	Complies
Solubility:	Insoluble in water.	Complies
Specific Gravity:	0.863 – 0.873 @ 20°C	0.867
Refractive Index:	1.465 – 1.467 @ 40°C	1.465
Peroxide Value:	<2 meq/kg	0.0
Acid Value:	<1 mg KOH/g	0.10
Saponification Value:	85 – 98	91.4
Iodine Value:	80 – 92	82.9
Unsaponifiable Matter:	45 – 55 g/100g	47.6
Gandoic Acid:	60 – 80 %	71.71
Erucic Acid:	10 – 20 %	14.724
Oleic Acid:	5 – 15 %	10.371
Nervonic Acid:	< 3 %	1.462

### Disclaimer & Caution

Please refer to all relevant technical information specific to the product, prior to use. The information contained in this document is obtained from current and reliable sources. New Directions Aromatics Inc. provides the information contained herein, but makes no representation as to its comprehensiveness or accuracy. Individuals receiving this information must exercise their independent judgment in determining its appropriateness for a particular purpose. The user of the product is solely responsible for compliance with all laws and regulations applying to the use of the products, including intellectual property rights of third parties. As the ordinary or otherwise use(s) of this product is outside the control of New Directions Aromatics Inc., no representation or warranty, expressed or implied, is made as to the effect(s) of such use(s), (including damage or injury), or the results obtained. The liability of New Directions Aromatics Inc. is limited to the value of the goods and does not include any consequential loss. New Directions Aromatics Inc. shall not be liable for any errors or delays in the content, or for any actions taken in reliance thereon. New Directions Aromatics Inc. shall not be responsible for any damages resulting from use of or reliance upon this information. In the event of any dispute, the Customer hereby agrees that Jurisdiction is limited to the province of Ontario.

## CERTIFICATE OF ANALYSIS

Product: Jojoba Clear Deodorized Carrier Oil -Verified by  
ECOCERT/Cosmos Approved

Lot No: 15014C11220

Best Before: June, 2023

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

<u>Properties</u>	<u>Specifications</u>	<u>Results</u>
Appearance:	Clear, colorless to very pale-yellow liquid.	Complies
Odor:	Characteristic neutral odor.	Complies
Solubility:	Insoluble in water.	Complies
Specific Gravity:	0.863 – 0.873 @ 20°C	0.864
Refractive Index:	1.465 – 1.467 @ 40°C	1.466
Peroxide Value:	<2 meq/kg	0.0
Acid Value:	<1 mg KOH/g	0.08
Saponification Value:	85 – 98	89.7
Iodine Value:	80 – 92	83.7
Unsaponifiable Matter:	45 – 55 g/100g	45.8
Gandoic Acid:	60 – 80 %	68.94
Erucic Acid:	10 – 20 %	17.57
Oleic Acid:	5 – 15 %	9.93
Nervonic Acid:	< 3 %	1.67

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## CERTIFICATE OF ANALYSIS

Product: Jojoba Clear Deodorized Carrier Oil -Verified by  
ECOCERT/Cosmos Approved

Lot No: 15014B10820

Best Before: February, 2023

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

<u>Properties</u>	<u>Specifications</u>	<u>Results</u>
Appearance:	Clear, colorless to very pale yellow liquid.	Complies
Odor:	Characteristic neutral odor.	Complies
Solubility:	Insoluble in water.	Complies
Specific Gravity:	0.863 – 0.873 @ 20°C	0.866
Refractive Index:	1.465 – 1.467 @ 40°C	1.467
Peroxide Value:	<2 meq/kg	0.0
Acid Value:	<1 mg KOH/g	0.2
Saponification Value:	85 – 98	90.6
Iodine Value:	80 – 92	82.8
Unsaponifiable Matter:	45 – 55 g/100g	45.9
Gandoic Acid:	60 – 80 %	69.88
Erucic Acid:	10 – 20 %	13.67
Oleic Acid:	5 – 15 %	12.93
Nervonic Acid:	< 3 %	1.5

## CERTIFICATE OF ANALYSIS

Product: Jojoba Clear Deodorized Carrier Oil -Verified by

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ECOCERT/Cosmos Approved

Lot No: 15014A10720

Best Before: February, 2023

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

<u>Properties</u>	<u>Specifications</u>	<u>Results</u>
Appearance:	Clear, colorless to very pale yellow liquid.	Complies
Odor:	Characteristic neutral odor.	Complies
Solubility:	Insoluble in water.	Complies
Specific Gravity:	0.863 – 0.873 @ 20°C	0.866
Refractive Index:	1.465 – 1.467 @ 40°C	1.467
Peroxide Value:	<2 meq/kg	0.0
Acid Value:	<1 mg KOH/g	0.2
Saponification Value:	85 – 98	90.6
Iodine Value:	80 – 92	82.8
Unsaponifiable Matter:	45 – 55 g/100g	45.9
Gandoic Acid:	60 – 80 %	69.88
Erucic Acid:	10 – 20 %	13.67
Oleic Acid:	5 – 15 %	12.93
Nervonic Acid:	< 3 %	1.5

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## CERTIFICATE OF ANALYSIS

Product: Jojoba Clear Deodorized Carrier Oil -Verified by  
ECOCERT/Cosmos Approved

Lot No: 15014B10520

Best Before: February, 2023

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

<u>Properties</u>	<u>Specifications</u>	<u>Results</u>
Appearance:	Clear, colorless to very pale yellow liquid.	Complies
Odor:	Characteristic neutral odor.	Complies
Solubility:	Insoluble in water.	Complies
Specific Gravity:	0.863 – 0.873 @ 20°C	0.866
Refractive Index:	1.465 – 1.467 @ 40°C	1.467
Peroxide Value:	<2 meq/kg	0.0
Acid Value:	<1 mg KOH/g	0.2
Saponification Value:	85 – 98	90.6
Iodine Value:	80 – 92	82.8
Unsaponifiable Matter:	45 – 55 g/100g	45.9
Gandoic Acid:	60 – 80 %	69.88
Erucic Acid:	10 – 20 %	13.67
Oleic Acid:	5 – 15 %	12.93
Nervonic Acid:	< 3 %	1.5

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## CERTIFICATE OF ANALYSIS

Product: Jojoba Clear Deodorized Carrier Oil -Verified by  
ECOCERT/Cosmos Approved

Lot No: 15014B10320

Best Before: September, 2022

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

<u>Properties</u>	<u>Specifications</u>	<u>Results</u>
Appearance:	Clear, colorless to very pale yellow liquid.	Complies
Odor:	Characteristic neutral odor.	Complies
Solubility:	Insoluble in water.	Complies
Specific Gravity:	0.863 – 0.873 @ 20°C	0.864
Refractive Index:	1.465 – 1.467 @ 40°C	1.467
Peroxide Value:	<2 meq/kg	0.9
Acid Value:	<1 mg KOH/g	0.65
Saponification Value:	85 – 98	90.7
Iodine Value:	80 – 92	84.8
Unsaponifiable Matter:	45 – 55 g/100g	46.2
Gandoic Acid:	60 – 80 %	71.04
Erucic Acid:	10 – 20 %	13.22
Oleic Acid:	5 – 15 %	10.22
Nervonic Acid:	< 3 %	2.9

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