

## CERTIFICATE OF ANALYSIS

Product: Castor USP Carrier Oil

Product Lot No: 15006C11020

Best Before: October, 2022

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

<u>Properties</u>	<u>Specifications</u>	<u>Results</u>
Appearance:	Pale yellow to golden yellow liquid.	Complies
Odor:	Characteristic odor.	Complies
Solubility:	Soluble in alcohol and oils. Insoluble in water.	Complies
Specific Gravity:	0.950 - 0.970 @ 30°C	0.964
Saponification Value:	177 - 185	181
Moisture:	< 0.25 %	0.22
Free Fatty Acid:	< 0.4 %	0.28
Acid Value:	< 0.8 %	0.49
Iodine Value:	82 - 90	86
Hydroxyl Value:	158 - 165	162

### 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: Castor USP Carrier Oil

Product Lot No: 15006B10920

Best Before: September, 2022

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

<u>Properties</u>	<u>Specifications</u>	<u>Results</u>
Appearance:	Pale yellow to golden yellow liquid.	Complies
Odor:	Characteristic odor.	Complies
Solubility:	Soluble in alcohol and oils. Insoluble in water.	Complies
Specific Gravity:	0.950 - 0.970 @ 30°C	0.964
Saponification Value:	177 - 185	181
Moisture:	< 0.25 %	0.22
Free Fatty Acid:	< 0.4 %	0.28
Acid Value:	< 0.8 %	0.49
Iodine Value:	82 - 90	86
Hydroxyl Value:	158 - 165	162

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## CERTIFICATE OF ANALYSIS

Product: Castor USP Carrier Oil

Product Lot No: 15006A10820

Best Before: August, 2022

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

<u>Properties</u>	<u>Specifications</u>	<u>Results</u>
Appearance:	Pale yellow to golden yellow liquid.	Complies
Odor:	Characteristic odor.	Complies
Solubility:	Soluble in alcohol and oils. Insoluble in water.	Complies
Specific Gravity:	0.950 - 0.970 @ 30°C	0.963
Saponification Value:	177 - 185	182
Moisture:	< 0.25 %	0.22
Free Fatty Acid:	< 0.4 %	0.29
Acid Value:	< 0.8 %	0.47
Iodine Value:	82 - 90	85
Hydroxyl Value:	158 - 165	161

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## CERTIFICATE OF ANALYSIS

Product: Castor USP Carrier Oil

Product Lot No: 15006A107191

Best Before: July, 2022

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

<u>Properties</u>	<u>Specifications</u>	<u>Results</u>
Appearance:	Pale yellow to golden yellow liquid.	Complies
Odor:	Characteristic odor.	Complies
Solubility:	Soluble in alcohol and oils. Insoluble in water.	Complies
Specific Gravity:	0.950 - 0.970 @ 30°C	Complies
Saponification Value:	177 - 185	Complies
Moisture:	< 0.25 %	Complies
Free Fatty Acid:	< 0.4 %	Complies
Acid Value:	< 0.8 %	Complies
Iodine Value:	82 - 90	Complies
Hydroxyl Value:	158 - 165	Complies

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## CERTIFICATE OF ANALYSIS

Product: Castor USP Carrier Oil

Product Lot No: 15006A10320

Best Before: March, 2022

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

<u>Properties</u>	<u>Specifications</u>	<u>Results</u>
Appearance:	Pale yellow to golden yellow liquid.	Complies
Odor:	Characteristic odor.	Complies
Solubility:	Soluble in alcohol and oils. Insoluble in water.	Complies
Specific Gravity:	0.950 - 0.970 @ 30°C	0.964
Saponification Value:	177 - 185	181
Moisture:	< 0.25 %	0.21
Free Fatty Acid:	< 0.4 %	0.26
Acid Value:	< 0.8 %	0.47
Iodine Value:	82 - 90	84
Hydroxyl Value:	158 - 165	163

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## CERTIFICATE OF ANALYSIS

Product: Castor USP Carrier Oil

Product Lot No: 15006A10719

Best Before: July, 2021

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

<u>Properties</u>	<u>Specifications</u>	<u>Results</u>
Appearance:	Pale yellow to golden yellow liquid.	Complies
Odor:	Characteristic odor.	Complies
Solubility:	Soluble in alcohol and oils. Insoluble in water.	Complies
Specific Gravity:	0.950 - 0.970 @ 30°C	0.961
Saponification Value:	177 - 185	182
Moisture:	< 0.25 %	0.19
Free Fatty Acid:	< 0.4 %	0.27
Acid Value:	< 0.8 %	0.49
Iodine Value:	82 - 90	83
Hydroxyl Value:	158 - 165	162

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## CERTIFICATE OF ANALYSIS

Product: Castor USP Carrier Oil

Product Lot No: 15006A10519

Best Before: May, 2021

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

<u>Properties</u>	<u>Specifications</u>	<u>Results</u>
Appearance:	Pale yellow to golden yellow liquid.	Complies
Odor:	Characteristic odor.	Complies
Solubility:	Soluble in alcohol and oils. Insoluble in water.	Complies
Specific Gravity:	0.950 - 0.970 @ 30°C	0.961
Saponification Value:	177 - 185	182
Moisture:	< 0.25 %	0.19
Free Fatty Acid:	< 0.4 %	0.27
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Iodine Value:	82 - 90	83
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## CERTIFICATE OF ANALYSIS

Product: Castor USP Carrier Oil

Product Lot No: 15006A00119

Best Before: February, 2021

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

<u>Properties</u>	<u>Specifications</u>	<u>Results</u>
Appearance:	Pale yellow to golden yellow liquid.	Complies
Odor:	Characteristic odor.	Complies
Solubility:	Soluble in alcohol and oils. Insoluble in water.	Complies
Specific Gravity:	0.950 - 0.970 @ 30°C	0.962
Saponification Value:	177 - 185	181
Moisture:	< 0.25 %	0.17
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