

CERTIFICATE OF ANALYSIS**Product:** Mandarin (Sicily) Essential Oil**Lot No.:** 11088A110191**Best Before:** October, 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:	Orange-yellow to a dark orange liquid.	Complies
Odor:	Characteristic sweet citrusy odor.	Complies
Solubility:	Soluble in alcohol and oils. Insoluble in water.	Complies
Specific Gravity:	0.848 to 0.860 @ 20°C	Complies
Refractive Index:	1.472 to 1.475 @ 20°C	Complies
Optical Rotation:	+69° to +76° @ 20°C	Complies
Limonene:	65 – 75 %	Complies
Gamma Terpinene:	16 – 22 %	Complies
Alpha Pinene:	1.8 – 3.0 %	Complies

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:** Mandarin (Sicily) Essential Oil**Lot No.:** 11088A11019**Best Before:** October, 2021

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

<u>Properties</u>	<u>Specifications</u>	<u>Results</u>
Appearance:	Orange-yellow to a dark orange liquid.	Complies
Odor:	Characteristic sweet citrusy odor.	Complies
Solubility:	Soluble in alcohol and oils. Insoluble in water.	Complies
Specific Gravity:	0.848 to 0.860 @ 20°C	0.850
Refractive Index:	1.472 to 1.475 @ 20°C	1.474
Optical Rotation:	+69° to +76° @ 20°C	+72.6°
Limonene:	65 – 75 %	72.6
Gamma Terpinene:	16 – 22 %	18
Alpha Pinene:	1.8 – 3.0 %	2.2

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CERTIFICATE OF ANALYSIS**Product:** Mandarin (Sicily) Essential Oil**Lot No.:** 11088A10619**Best Before:** June, 2021

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

<u>Properties</u>	<u>Specifications</u>	<u>Results</u>
Appearance:	Orange-yellow to a dark orange liquid.	Complies
Odor:	Characteristic sweet citrusy odor.	Complies
Solubility:	Soluble in alcohol and oils. Insoluble in water.	Complies
Specific Gravity:	0.848 to 0.860 @ 20°C	0.851
Refractive Index:	1.472 to 1.475 @ 20°C	1.474
Optical Rotation:	+69° to +76° @ 20°C	+73.0°
Limonene:	65 – 75 %	72.6
Gamma Terpinene:	16 – 22 %	17.9
Alpha Pinene:	1.8 – 3.0 %	2.2

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CERTIFICATE OF ANALYSIS**Product:** Mandarin (Sicily) Essential Oil**Lot No.:** 11088A501**Best Before:** June, 2021

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

<u>Properties</u>	<u>Specifications</u>	<u>Results</u>
Appearance:	Orange-yellow to a dark orange liquid.	Complies
Odor:	Characteristic sweet citrusy odor.	Complies
Solubility:	Soluble in alcohol and oils. Insoluble in water.	Complies
Specific Gravity:	0.846 to 0.854 @ 20°C	0.852
Refractive Index:	1.472 to 1.475 @ 20°C	1.4744
Optical Rotation:	+69° to +76° @ 20°C	Complies

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