

CERTIFICATE OF ANALYSIS

Product: Thyme Red Essential Oil

Lot #: 11145A10720

Best Before: August, 2022

Store in an 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 reddish-yellow clear liquid.	Complies
Odor:	Characteristic thymol odor.	Complies
Solubility:	Insoluble in water.	Complies
Specific Gravity:	0.910 to 0.937@20°C	0.9264
Optical Rotation:	-6° to -1° @20°C	-1
Refractive Index:	1.494 to 1.509 @20°C	1.5010
Thymol:	37 - 57 %	54.09
γ-Terpinene:	4 - 11 %	7.99
ρ-Cymene:	14 - 28 %	14.49
Linalool:	2 - 6.5 %	5.00

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: Thyme Red Essential Oil
 Lot #: 11145A105191
 Best Before: July, 2022

Store in an 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 reddish-yellow clear liquid.	Complies
Odor:	Characteristic thymol odor.	Complies
Solubility:	Insoluble in water.	Complies
Specific Gravity:	0.910 to 0.937@20°C	Complies
Optical Rotation:	-6° to -1° @20°C	Complies
Refractive Index:	1.494 to 1.509 @20°C	Complies
Thymol:	37 - 57 %	Complies
γ-Terpinene:	4 - 11 %	Complies
ρ-Cymene:	14 - 28 %	Complies
Linalool:	2 - 6.5 %	Complies

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CERTIFICATE OF ANALYSIS

Product: Thyme Red Essential Oil

Lot #: 11145A10320

Best Before: July, 2022

Store in an 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 reddish-yellow clear liquid.	Complies
Odor:	Characteristic thymol odor.	Complies
Solubility:	Insoluble in water.	Complies
Specific Gravity:	0.910 to 0.937@20°C	0.9309
Optical Rotation:	-6° to -1° @20°C	-1.0°
Refractive Index:	1.494 to 1.509 @20°C	1.5000
Thymol:	37 - 57 %	54.6
γ-Terpinene:	4 - 11 %	8.9
ρ-Cymene:	14 - 28 %	14.4
Linalool:	2 - 6.5 %	3.2

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CERTIFICATE OF ANALYSIS

Product: Thyme Red Essential Oil

Lot #: 11145A10519

Best Before: July, 2021

Store in an 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 reddish-yellow clear liquid.	Complies
Odor:	Characteristic thymol odor.	Complies
Solubility:	Insoluble in water.	Complies
Specific Gravity:	0.910 to 0.937@20°C	0.9283
Optical Rotation:	-6° to -1° @20°C	-2.5°
Refractive Index:	1.494 to 1.509 @20°C	1.5005
Thymol:	37 - 57 %	53.6
γ-Terpinene:	4 - 11 %	8.6
ρ-Cymene:	14 - 28 %	15.0
Linalool:	2 - 6.5 %	4.8

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<u>Properties</u>	<u>Specifications</u>	<u>Results</u>
Appearance:	Pale yellow to reddish-yellow clear liquid.	Complies
Odor:	Characteristic thymol odor.	Complies
Solubility:	Insoluble in water.	Complies
Specific Gravity:	0.910 to 0.937@20°C	0.9283
Optical Rotation:	-6° to -1° @20°C	-3.5°
Refractive Index:	1.494 to 1.509 @20°C	1.5000
Thymol:	37 - 57 %	53.7
γ-Terpinene:	4 - 11 %	7.1
ρ-Cymene:	14 - 28 %	18.9
Linalool:	2 - 6.5 %	3.0

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