

## CERTIFICATE OF ANALYSIS

Product: Peppermint Supreme Essential Oil

Lot No.: 11114D11020

Best Before: July, 2023

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

<u>Properties</u>	<u>Specifications</u>	<u>Results</u>
Appearance:	Colorless to very light yellow liquid.	Complies
Odor:	Characteristic odor of mint.	Complies
Solubility:	Insoluble in water.	Complies
Specific Gravity:	0.890 to 0.916 @ 20°C	0.903
Optical Rotation:	-30° to -10° @ 20°C	-23.25°
Refractive Index:	1.455 to 1.467 @ 20°C	1.464
$\alpha$ -pinene:	0.8 - 2.0 %	1.00
$\beta$ -pinene:	0.8 - 2.0 %	1.15
L-Limonene:	2 - 4 %	2.55
Cineole:	5 - 7 %	5.60
L-Menthone:	18 - 27 %	27.35
Menthofuran:	1 - 2 %	1.35
Iso-Menthone:	3.5 - 5 %	4.10
Menthyl Acetate:	4 - 5.5 %	4.70
Iso-pulegole:	0.08 - 0.20 %	0.10
Pulegone:	0.5 - 2.0 %	0.50
L-Menthol:	28 - 40 %	36.70

### 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: Peppermint Supreme Essential Oil

Lot No.: 11114C10920

Best Before: April, 2023

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

<u>Properties</u>	<u>Specifications</u>	<u>Results</u>
Appearance:	Colorless to very light yellow liquid.	Complies
Odor:	Characteristic odor of mint.	Complies
Solubility:	Insoluble in water.	Complies
Specific Gravity:	0.890 to 0.916 @ 20°C	0.904
Optical Rotation:	-30° to -10° @ 20°C	-23.50°
Refractive Index:	1.455 to 1.467 @ 20°C	1.463
$\alpha$ -pinene:	0.8 - 2.0 %	1.00
$\beta$ -pinene:	0.8 - 2.0 %	1.40
L-Limonene:	2 - 4 %	2.40
Cineole:	5 - 7 %	5.50
L-Menthone:	18 - 27 %	26.50
Menthofuran:	1 - 2 %	1.20
Iso-Menthone:	3.5 - 5 %	3.75
Menthyl Acetate:	4 - 5.5 %	5.00
Iso-pulegole:	0.08 - 0.20 %	0.16
Pulegone:	0.5 - 2.0 %	0.60
L-Menthol:	28 - 40 %	36.95

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## CERTIFICATE OF ANALYSIS

Product: Peppermint Supreme Essential Oil

Lot No.: 11114A10720

Best Before: March, 2023

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

<u>Properties</u>	<u>Specifications</u>	<u>Results</u>
Appearance:	Colorless to very light yellow liquid.	Complies
Odor:	Characteristic odor of mint.	Complies
Solubility:	Insoluble in water.	Complies
Specific Gravity:	0.890 to 0.916 @ 20°C	0.904
Optical Rotation:	-30° to -10° @ 20°C	-23.50°
Refractive Index:	1.455 to 1.467 @ 20°C	1.463
$\alpha$ -pinene:	0.8 - 2.0 %	1.00
$\beta$ -pinene:	0.8 - 2.0 %	1.40
L-Limonene:	2 - 4 %	2.40
Cineole:	5 - 7 %	5.50
L-Menthone:	18 - 27 %	26.50
Menthofuran:	1 - 2 %	1.20
Iso-Menthone:	3.5 - 5 %	3.75
Menthyl Acetate:	4 - 5.5 %	5.00
Iso-pulegole:	0.08 - 0.20 %	0.16
Pulegone:	0.5 - 2.0 %	0.60
L-Menthol:	28 - 40 %	36.95

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## CERTIFICATE OF ANALYSIS

Product: Peppermint Supreme Essential Oil

Lot No.: 11114A471

Best Before: June, 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:	Colorless to very light yellow liquid.	Complies
Odor:	Characteristic odor of mint.	Complies
Solubility:	Insoluble in water.	Complies
Specific Gravity:	0.890 to 0.916 @ 20°C	Complies
Optical Rotation:	-30° to -10° @ 20°C	Complies
Refractive Index:	1.455 to 1.467 @ 20°C	Complies
$\alpha$ -pinene:	0.8 - 1.5 %	Complies
$\beta$ -pinene:	0.8 - 1.5 %	Complies
L-Limonene:	2 - 4 %	Complies
Cineole:	5 - 7 %	Complies
L-Menthone:	18 - 27 %	Complies
Menthofuran:	1 - 2 %	Complies
Iso-Menthone:	3.5 - 5 %	Complies
Menthyl Acetate:	4 - 5.5 %	Complies
Iso-pulegole:	0.08 - 0.20 %	Complies
Pulegone:	0.5 - 2.0 %	Complies
L-Menthol:	28 - 40 %	Complies

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## CERTIFICATE OF ANALYSIS

Product: Peppermint Supreme Essential Oil

Lot No.: 11114B10720

Best Before: March, 2023

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

<u>Properties</u>	<u>Specifications</u>	<u>Results</u>
Appearance:	Colorless to very light yellow liquid.	Complies
Odor:	Characteristic odor of mint.	Complies
Solubility:	Insoluble in water.	Complies
Specific Gravity:	0.890 to 0.916 @ 20°C	0.904
Optical Rotation:	-30° to -10° @ 20°C	-21.70°
Refractive Index:	1.455 to 1.467 @ 20°C	1.464
$\alpha$ -pinene:	0.8 - 2.0 %	1.15
$\beta$ -pinene:	0.8 - 2.0 %	1.45
L-Limonene:	2 - 4 %	2.75
Cineole:	5 - 7 %	5.70
L-Menthone:	18 - 27 %	24.90
Menthofuran:	1 - 2 %	1.30
Iso-Menthone:	3.5 - 5 %	4.10
Menthyl Acetate:	4 - 5.5 %	5.40
Iso-pulegole:	0.08 - 0.20 %	0.12
Pulegone:	0.5 - 2.0 %	0.65
L-Menthol:	28 - 40 %	35.95

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## CERTIFICATE OF ANALYSIS

Product: Peppermint Supreme Essential Oil

Lot No.: 11114A10520

Best Before: March, 2023

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

<u>Properties</u>	<u>Specifications</u>	<u>Results</u>
Appearance:	Colorless to very light yellow liquid.	Complies
Odor:	Characteristic odor of mint.	Complies
Solubility:	Insoluble in water.	Complies
Specific Gravity:	0.890 to 0.916 @ 20°C	0.904
Optical Rotation:	-30° to -10° @ 20°C	-21.70°
Refractive Index:	1.455 to 1.467 @ 20°C	1.464
$\alpha$ -pinene:	0.8 - 2.0 %	1.15
$\beta$ -pinene:	0.8 - 2.0 %	1.45
L-Limonene:	2 - 4 %	2.75
Cineole:	5 - 7 %	5.70
L-Menthone:	18 - 27 %	24.90
Menthofuran:	1 - 2 %	1.30
Iso-Menthone:	3.5 - 5 %	4.10
Menthyl Acetate:	4 - 5.5 %	5.40
Iso-pulegone:	0.08 - 0.20 %	0.12
Pulegone:	0.5 - 2.0 %	0.65
L-Menthol:	28 - 40 %	35.95

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## CERTIFICATE OF ANALYSIS

Product: Peppermint Supreme Essential Oil

Lot No.: 11114A10619

Best Before: February, 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:	Colorless to very light yellow liquid.	Complies
Odor:	Characteristic odor of mint.	Complies
Solubility:	Insoluble in water.	Complies
Specific Gravity:	0.890 to 0.916 @ 20°C	0.908
Optical Rotation:	-30° to -10° @ 20°C	-21.0°
Refractive Index:	1.455 to 1.467 @ 20°C	1.462
$\alpha$ -pinene:	0.8 - 2.0 %	1.55
$\beta$ -pinene:	0.8 - 2.0 %	1.65
L-Limonene:	2 - 4 %	2.65
Cineole:	5 - 7 %	5.30
L-Menthone:	18 - 27 %	24.95
Menthofuran:	1 - 2 %	1.25
Iso-Menthone:	3.5 - 5 %	3.90
Menthyl Acetate:	4 - 5.5 %	4.65
Iso-pulegole:	0.08 - 0.20 %	0.14
Pulegone:	0.5 - 2.0 %	0.65
L-Menthol:	28 - 40 %	35.50

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## CERTIFICATE OF ANALYSIS

Product: Peppermint Supreme Essential Oil

Lot No.: 11114A11219

Best Before: December, 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:	Colorless to very light yellow liquid.	Complies
Odor:	Characteristic odor of mint.	Complies
Solubility:	Insoluble in water.	Complies
Specific Gravity:	0.890 to 0.910 @ 25°C	0.8984
Optical Rotation:	-18° to -32° @ 20°C	-23.59°
Refractive Index:	1.4570 to 1.4650 @ 20°C	1.4607
L-Menthol:	30 - 55 %	35.15
L-Menthone:	20 - 28 %	24.61
Menthofuran:	1 - 5 %	2.75
Pulegone:	-----	1.11

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## CERTIFICATE OF ANALYSIS

Product: Peppermint Supreme Essential Oil

Lot No.: 11114 - A47

Best Before: June, 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:	Colorless to very light yellow liquid.	Complies
Odor:	Characteristic odor of mint.	Complies
Solubility:	Insoluble in water.	Complies
Specific Gravity:	0.890 to 0.916 @ 20°C	0.9023
Optical Rotation:	-30° to -10° @ 20°C	-24.1°
Refractive Index:	1.455 to 1.467 @ 20°C	1.4591
$\alpha$ -pinene:	0.8 - 1.5 %	1.15
$\beta$ -pinene:	0.8 - 1.5 %	1.25
L-Limonene:	2 - 4 %	2.75
Cineole:	5 - 7 %	5.95
L-Menthone:	18 - 27 %	26.75
Menthofuran:	1 - 2 %	1.25
Iso-Menthone:	3.5 - 5 %	3.85
Menthyl Acetate:	4 - 5.5 %	5.40
Iso-pulegole:	0.08 - 0.20 %	0.10
Pulegone:	0.5 - 2.0 %	0.95
L-Menthol:	28 - 40 %	37.20

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## CERTIFICATE OF ANALYSIS

Product: Peppermint Supreme Essential Oil

Lot No.: 11114 - A46

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:	Colorless to very light yellow liquid.	Complies
Odor:	Characteristic odor of mint.	Complies
Solubility:	Insoluble in water.	Complies
Specific Gravity:	0.890 to 0.916 @ 20°C	0.9023
Optical Rotation:	-30° to -10° @ 20°C	-24.1°
Refractive Index:	1.455 to 1.467 @ 20°C	1.4591
$\alpha$ -pinene:	0.8 - 1.5 %	1.25
$\beta$ -pinene:	0.8 - 1.5 %	1.25
L-Limonene:	2 - 4 %	2.75
Cineole:	5 - 7 %	5.95
L-Menthone:	18 - 27 %	25.95
Menthofuran:	1 - 2 %	1.25
Iso-Menthone:	3.5 - 5 %	4.30
Menthyl Acetate:	4 - 5.5 %	5.30
Iso-pulegone:	0.08 - 0.20 %	0.10
Pulegone:	0.5 - 2.0 %	0.75
L-Menthol:	28 - 40 %	37.30

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## CERTIFICATE OF ANALYSIS

Product: Peppermint Supreme Essential Oil

Lot No.: 11114 - A45

Best Before: April, 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:	Colorless to very light yellow liquid.	Complies
Odor:	Characteristic odor of mint.	Complies
Solubility:	Insoluble in water.	Complies
Specific Gravity:	0.890 to 0.916 @ 20°C	0.9023
Optical Rotation:	-30° to -10° @ 20°C	-24.1°
Refractive Index:	1.455 to 1.467 @ 20°C	1.4591
$\alpha$ -pinene:	0.8 - 1.5 %	1.35
$\beta$ -pinene:	0.8 - 1.5 %	1.35
L-Limonene:	2 - 4 %	2.75
Cineole:	5 - 7 %	5.50
L-Menthone:	18 - 25 %	24.25
Menthofuran:	1 - 2 %	1.25
Iso-Menthone:	3.5 - 5 %	4.30
Menthyl Acetate:	4 - 5.5 %	5.50
Iso-pulegole:	0.08 - 0.20 %	0.10
Pulegone:	0.5 - 2.0 %	0.75
L-Menthol:	28 - 40 %	36.95

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## CERTIFICATE OF ANALYSIS

Product: Peppermint Supreme Essential Oil

Lot No.: 11114 - A44,B44,C44,D44

Best Before: April, 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:	Colorless to very light yellow liquid.	Complies
Odor:	Characteristic odor of mint.	Complies
Solubility:	Insoluble in water.	Complies
Specific Gravity:	0.896 to 0.908 @ 20°C	0.9023
Optical Rotation:	-30° to -21° @ 20°C	-24.1°
Refractive Index:	1.4600 to 1.4620 @ 20°C	1.4591
$\alpha$ -pinene:	0.8 - 1.5 %	Complies
$\beta$ -pinene:	0.8 - 1.5 %	Complies
L-Limonene:	2 - 4 %	2.49
Cineole:	5 - 7 %	6.91
L-Menthone:	18 - 25 %	24.8
Menthofuran:	1 - 2 %	1.52
Iso-Menthone:	3.5 - 5 %	Complies
Menthyl Acetate:	4 - 5.5 %	5.70
Iso-pulegole:	0.08 - 0.20 %	0.12
Pulegone:	0.5 - 2.0 %	0.58
L-Menthol:	28 - 40 %	39.2

### Disclaimer & Caution

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