

CERTIFICATE OF ANALYSIS

Product: Ylang Ylang Essential Oil # 1

Lot No.: 11154A20720

Best Before: May, 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:	Pale to golden yellow clear liquid.	Complies
Odor:	Characteristic sweet, exotic floral odor.	Complies
Solubility:	Soluble in alcohol and oils. Insoluble in water.	Complies
Specific Gravity:	0.930 to 0.961 @ 20°C	Complies
Optical Rotation:	-45.0° to -15.0° @ 20°C	Complies
Refractive Index:	1.495 to 1.510 @ 20°C	Complies
Linalool:	12 - 19 %	18.1
Germacrene D:	9.5 - 18 %	9.8
Geranyl acetate:	8.0 - 15 %	12.7
Beta-Caryophyllene:	5.5 - 12 %	7.1
Geraniol:	1.6 - 2.6 %	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: Ylang Ylang Essential Oil # 1

Lot No.: 11154A10720

Best Before: April, 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:	Pale to golden yellow clear liquid.	Complies
Odor:	Characteristic sweet, exotic floral odor.	Complies
Solubility:	Soluble in alcohol and oils. Insoluble in water.	Complies
Specific Gravity:	0.930 to 0.961 @ 20°C	Complies
Optical Rotation:	-45.0° to -15.0° @ 20°C	Complies
Refractive Index:	1.495 to 1.510 @ 20°C	Complies
Linalool:	12 - 19 %	Complies
Germacrene D:	9.5 - 18 %	Complies
Geranyl acetate:	8.0 - 15 %	13.0
Beta-Caryophyllene:	5.5 - 12 %	Complies
Geraniol:	1.6 - 2.6 %	Complies

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CERTIFICATE OF ANALYSIS

Product: Ylang Ylang Essential Oil # 1

Lot No.: 11154B10520

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:	Pale to golden yellow clear liquid.	Complies
Odor:	Characteristic sweet, exotic floral odor.	Complies
Solubility:	Soluble in alcohol and oils. Insoluble in water.	Complies
Specific Gravity:	0.930 to 0.961 @ 20°C	Complies
Optical Rotation:	-45.0° to -15.0° @ 20°C	Complies
Refractive Index:	1.495 to 1.510 @ 20°C	Complies
Linalool:	12 - 19 %	17.34
Germacrene D:	9.5 - 18 %	12.00
Geranyl acetate:	8.0 - 15 %	11.62
Beta-Caryophyllene:	5.5 - 12 %	9.92
Geraniol:	1.6 - 2.6 %	2.65

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CERTIFICATE OF ANALYSIS

Product: Ylang Ylang Essential Oil # 1

Lot No.: 11154A10120

Best Before: November, 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:	Pale to golden yellow clear liquid.	Complies
Odor:	Characteristic sweet, exotic floral odor.	Complies
Solubility:	Soluble in alcohol and oils. Insoluble in water.	Complies
Specific Gravity:	0.930 to 0.961 @ 20°C	0.941
Optical Rotation:	-45.0° to -15.0° @ 20°C	Complies
Refractive Index:	1.495 to 1.510 @ 20°C	Complies
Linalool:	12 - 19 %	Complies
Germacrene D:	9.5 - 18 %	Complies
Geranyl acetate:	8.0 - 15 %	Complies
Beta-Caryophyllene:	5.5 - 12 %	Complies
Geraniol:	1.6 - 2.6 %	Complies

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## CERTIFICATE OF ANALYSIS

Product: Ylang Ylang Essential Oil # 1

Lot No.: 11154B20919

Best Before: August, 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:	Pale to golden yellow clear liquid.	Complies
Odor:	Characteristic sweet, exotic floral odor.	Complies
Solubility:	Soluble in alcohol and oils. Insoluble in water.	Complies
Specific Gravity:	0.930 to 0.961 @ 20°C	Complies
Optical Rotation:	-45.0° to -15.0° @ 20°C	Complies
Refractive Index:	1.495 to 1.510 @ 20°C	Complies
Linalool:	12 - 19 %	Complies
Germacrene D:	9.5 - 18 %	12.9
Geranyl acetate:	8.0 - 15 %	10.8
Beta-Caryophyllene:	5.5 - 12 %	7.3
Geraniol:	1.6 - 2.6 %	2.1

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CERTIFICATE OF ANALYSIS

Product: Ylang Ylang Essential Oil # 1

Lot No.: 11154A10819

Best Before: July, 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:	Pale to golden yellow clear liquid.	Complies
Odor:	Characteristic sweet, exotic floral odor.	Complies
Solubility:	Soluble in alcohol and oils. Insoluble in water.	Complies
Specific Gravity:	0.930 to 0.961 @ 20°C	Complies
Optical Rotation:	-45.0° to -15.0° @ 20°C	Complies
Refractive Index:	1.495 to 1.510 @ 20°C	Complies
Linalool:	12 - 19 %	Complies
Germacrene D:	9.5 - 18 %	12.0
Geranyl acetate:	8.0 - 15 %	11.0
Beta-Caryophyllene:	5.5 - 12 %	6.7
Geraniol:	1.6 - 2.6 %	2.3

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## CERTIFICATE OF ANALYSIS

Product: Ylang Ylang Essential Oil # 1

Lot No.: 11154B10919

Best Before: June, 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:	Pale to golden yellow clear liquid.	Complies
Odor:	Characteristic sweet, exotic floral odor.	Complies
Solubility:	Soluble in alcohol and oils. Insoluble in water.	Complies
Specific Gravity:	0.930 to 0.961 @ 20°C	Complies
Optical Rotation:	-45.0° to -15.0° @ 20°C	Complies
Refractive Index:	1.495 to 1.510 @ 20°C	Complies
Linalool:	12 - 19 %	Complies
Germacrene D:	9.5 - 18 %	11.6
Geranyl acetate:	8.0 - 15 %	12.0
Beta-Caryophyllene:	5.5 - 12 %	6.5
Geraniol:	1.6 - 2.6 %	Complies

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CERTIFICATE OF ANALYSIS

Product: Ylang Ylang Essential Oil # 1

Lot No.: 11154A20319

Best Before: January, 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:	Pale to golden yellow clear liquid.	Complies
Odor:	Characteristic sweet, exotic floral odor.	Complies
Solubility:	Soluble in alcohol and oils. Insoluble in water.	Complies
Specific Gravity:	0.930 to 0.961 @ 20°C	Complies
Optical Rotation:	-45.0° to -15.0° @ 20°C	Complies
Refractive Index:	1.495 to 1.510 @ 20°C	Complies
Linalool:	12 - 19 %	15.7
Germacrene D:	9.5 - 18 %	12.3
Geranyl acetate:	8.0 - 15 %	12.0
Beta-Caryophyllene:	5.5 - 12 %	8.5
Geraniol:	1.6 - 2.6 %	2.4

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## CERTIFICATE OF ANALYSIS

**Product:** Ylang Ylang Essential Oil # 1  
**Lot No.:** 11154A10319  
**Best Before:** January, 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:	Pale to golden yellow clear liquid.	Complies
Odor:	Characteristic sweet, exotic floral odor.	Complies
Solubility:	Soluble in alcohol and oils. Insoluble in water.	Complies
Specific Gravity:	0.930 to 0.961 @ 20°C	Complies
Optical Rotation:	-45.0° to -15.0° @ 20°C	Complies
Refractive Index:	1.495 to 1.510 @ 20°C	Complies
Linalool:	12 - 19 %	16.4
Germacrene D:	9.5 - 18 %	12.8
Geranyl acetate:	8.0 - 15 %	11.8
Beta-Caryophyllene:	5.5 - 12 %	8.1
Geraniol:	1.6 - 2.6 %	2.2

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CERTIFICATE OF ANALYSIS

Product: Ylang Ylang Essential Oil # 1

Lot No.: 11154A00119

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:	Pale to golden yellow clear liquid.	Complies
Odor:	Characteristic sweet, exotic floral odor.	Complies
Solubility:	Soluble in alcohol and oils. Insoluble in water.	Complies
Specific Gravity:	0.930 to 0.961 @ 20°C	Complies
Optical Rotation:	-45.0° to -15.0° @ 20°C	Complies
Refractive Index:	1.495 to 1.510 @ 20°C	Complies
Linalool:	12 - 19 %	16.3
Germacrene D:	9.5 - 18 %	14.6
Geranyl acetate:	8.0 - 15 %	11.3
Beta-Caryophyllene:	5.5 - 12 %	8.7
Geraniol:	1.6 - 2.6 %	1.9

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CERTIFICATE OF ANALYSIS

Product: Ylang Ylang Essential Oil # 1

Lot No.: 11154-A51

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:	Pale to golden yellow clear liquid.	Complies
Odor:	Characteristic sweet, exotic floral odor.	Complies
Solubility:	Soluble in alcohol and oils. Insoluble in water.	Complies
Specific Gravity:	0.930 to 0.961 @ 20°C	0.944
Optical Rotation:	-45.0° to -15.0° @ 20°C	Complies
Refractive Index:	1.495 to 1.510 @ 20°C	Complies
Linalool:	12 - 19 %	Complies
Germacrene D:	9.5 - 18 %	10.4
Geranyl acetate:	8.0 - 15 %	9.8
Beta-Caryophyllene:	5.5 - 12 %	6.3
Geraniol:	1.6 - 2.6 %	2.3

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CERTIFICATE OF ANALYSIS

Product: Ylang Ylang Essential Oil # 1

Lot No.: 11154-A50

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:	Pale to golden yellow clear liquid.	Complies
Odor:	Characteristic sweet, exotic floral odor.	Complies
Solubility:	Soluble in alcohol and oils. Insoluble in water.	Complies
Specific Gravity:	0.930 to 0.961 @ 20°C	0.930
Optical Rotation:	-45.0° to -15.0° @ 20°C	Complies
Refractive Index:	1.495 to 1.510 @ 20°C	1.4965
Linalool:	12 - 19 %	16.45
Germacrene D:	9.5 - 18 %	15.41
Geranyl acetate:	8.0 - 15 %	10.45
Beta-Caryophyllene:	5.5 - 12 %	11.51
Geraniol:	1.6 - 2.6 %	1.72

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CERTIFICATE OF ANALYSIS

Product: Ylang Ylang Essential Oil # 1

Lot No.: 11154-A49,B49,C49

Best Before: February, 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:	Pale to golden yellow clear liquid.	Complies
Odor:	Characteristic sweet, exotic floral odor.	Complies
Solubility:	Soluble in alcohol and oils. Insoluble in water.	Complies
Specific Gravity:	0.930 to 0.961 @ 20°C	0.933
Optical Rotation:	-45.0° to -15.0° @ 20°C	-22.48°
Refractive Index:	1.495 to 1.510 @ 20°C	1.4971
Linalool:	12 - 19 %	14.1
Germacrene D:	9.5 - 18 %	13.2
Geranyl acetate:	8.0 - 15 %	8.3
Beta-Caryophyllene:	5.5 - 12 %	11.7
Geraniol:	1.6 - 2.6 %	2.1

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## CERTIFICATE OF ANALYSIS

**Product:** Ylang Ylang Essential Oil # 1

**Lot No.:** 11154-A48,B48

**Best Before:** February, 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:	Pale to golden yellow clear liquid.	Complies
Odor:	Characteristic sweet, exotic floral odor.	Complies
Solubility:	Soluble in alcohol and oils. Insoluble in water.	Complies
Specific Gravity:	0.930 to 0.961 @ 20°C	Complies
Optical Rotation:	-45.0° to -15.0° @ 20°C	-27.52°
Refractive Index:	1.495 to 1.510 @ 20°C	1.5013
Linalool:	12 - 19 %	16.5
Germacrene D:	9.5 - 18 %	11.4
Geranyl acetate:	8.0 - 15 %	9.1
Beta-Caryophyllene:	5.5 - 12 %	8.6
Geraniol:	1.6 - 2.6 %	2.1

### Disclaimer & Caution

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## CERTIFICATE OF ANALYSIS

**Product:** Ylang Ylang Essential Oil # 1  
**Lot No.:** 11154-A47  
**Best Before:** January, 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:	Pale to golden yellow clear liquid.	Complies
Odor:	Characteristic sweet, exotic floral odor.	Complies
Solubility:	Soluble in alcohol and oils. Insoluble in water.	Complies
Specific Gravity:	0.930 to 0.961 @ 20°C	0.932
Optical Rotation:	-45.0° to -15.0° @ 20°C	Complies
Refractive Index:	1.495 to 1.510 @ 20°C	1.4964
Linalool:	12 - 19 %	Complies
Germacrene D:	9.5 - 18 %	Complies
Geranyl acetate:	8.0 - 15 %	Complies
Beta-Caryophyllene:	5.5 - 12 %	Complies
Geraniol:	1.6 - 2.6 %	Complies

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