



## CERTIFICATE OF ANALYSIS

**Product:** Bergamot Bergaptene-Free (Calabrian) Essential Oil  
**Lot No.:** 11227- A43  
**Best Before:** October, 2020  
Store in air tight container; in a cool dry area; away from direct sunlight.

<u>Properties</u>	<u>Specifications</u>	<u>Results</u>
<b>Appearance:</b>	Colorless to pale green-yellow.	Complies
<b>Odor:</b>	Fresh and citrusy odor.	Complies
<b>Solubility:</b>	Soluble in alcohol and oils. Insoluble in water.	Complies
<b>Specific Gravity:</b>	0.866 to 0.878 @ 20°C	0.868
<b>Optical Rotation:</b>	+20° to +40° @ 20°C 1.462 to	+30.3°
<b>Refractive Index:</b>	1.468 @ 20°C	1.464
<b>α-pinene:</b>	1 - 2 %	1.0
<b>β-pinene:</b>	5.0 - 9.5 %	6.5
<b>Limonene:</b>	30 - 45 %	49.9
<b>Linalool:</b>	3 - 15 %	11.1

### Disclaimer & Caution:

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## CERTIFICATE OF ANALYSIS

**Product:** Bergamot Bergaptene-Free (Calabrian) Essential Oil  
**Lot No.:** 11227- A42,B42  
**Best Before:** June, 2020  
Store in air tight container; in a cool dry area; away from direct sunlight.

<u>Properties</u>	<u>Specifications</u>	<u>Results</u>
<b>Appearance:</b>	Colorless to pale green-yellow.	Complies
<b>Odor:</b>	Fresh and citrusy odor.	Complies
<b>Solubility:</b>	Soluble in alcohol and oils. Insoluble in water.	Complies
<b>Specific Gravity:</b>	0.866 to 0.878 @ 20°C	0.868
<b>Optical Rotation:</b>	+20° to +40° @ 20°C 1.462 to	+30.3°
<b>Refractive Index:</b>	1.468 @ 20°C	1.464
<b>α-pinene:</b>	1 - 2 %	1.0
<b>β-pinene:</b>	5.0 - 9.5 %	6.6
<b>Limonene:</b>	30 - 45 %	40.0
<b>Linalool:</b>	3 - 15 %	11.1

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## CERTIFICATE OF ANALYSIS

**Product:** Bergamot Bergaptene-Free (Calabrian) Essential Oil  
**Lot No.:** 11227- A41  
**Best Before:** March, 2020  
Store in air tight container; in a cool dry area; away from direct sunlight.

<u>Properties</u>	<u>Specifications</u>	<u>Results</u>
<b>Appearance:</b>	Colorless to pale green-yellow.	Complies
<b>Odor:</b>	Fresh and citrusy odor.	Complies
<b>Solubility:</b>	Soluble in alcohol and oils. Insoluble in water.	Complies
<b>Specific Gravity:</b>	0.866 to 0.878 @ 20°C	0.875
<b>Optical Rotation:</b>	+20° to +40° @ 20°C 1.462 to	+30.2°
<b>Refractive Index:</b>	1.468 @ 20°C	1.464
<b>α-pinene:</b>	1 - 2 %	1.0
<b>β-pinene:</b>	5.0 - 9.5 %	6.5
<b>Limonene:</b>	30 - 45 %	40.1
<b>Linalool:</b>	3 - 15 %	10.9

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## CERTIFICATE OF ANALYSIS

**Product:** Bergamot Bergaptene-Free (Calabrian) Essential Oil  
**Lot No.:** 11227- A40,B40  
**Best Before:** September, 2019  
Store in air tight container; in a cool dry area; away from direct sunlight.

<u>Properties</u>	<u>Specifications</u>	<u>Results</u>
<b>Appearance:</b>	Colorless to pale green-yellow.	Complies
<b>Odor:</b>	Fresh and citrusy odor.	Complies
<b>Solubility:</b>	Soluble in alcohol and oils. Insoluble in water.	Complies
<b>Specific Gravity:</b>	0.866 to 0.878 @ 20°C	0.869
<b>Optical Rotation:</b>	+20° to +40° @ 20°C 1.462 to	+29.9°
<b>Refractive Index:</b>	1.468 @ 20°C	1.464
<b>α-pinene:</b>	1 - 2 %	1.0
<b>β-pinene:</b>	5.0 - 9.5 %	6.5
<b>Limonene:</b>	30 - 45 %	40.0
<b>Linalool:</b>	3 - 15 %	10.8

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## CERTIFICATE OF ANALYSIS

**Product:** Bergamot Bergaptene-Free (Calabrian) Essential Oil  
**Lot No.:** 11227-A39  
**Best Before:** May, 2019  
Store in air tight container; in a cool dry area; away from direct sunlight.

<u>Properties</u>	<u>Specifications</u>	<u>Results</u>
<b>Appearance:</b>	Colorless to pale green-yellow.	Complies
<b>Odor:</b>	Fresh and citrusy odor.	Complies
<b>Solubility:</b>	Soluble in alcohol and oils. Insoluble in water.	Complies
<b>Specific Gravity:</b>	0.866 to 0.878 @ 20°C	0.868
<b>Optical Rotation:</b>	+20° to +40° @ 20°C 1.462 to	+30.1°
<b>Refractive Index:</b>	1.468 @ 20°C	1.465
<b>α-pinene:</b>	1 - 2 %	1.0
<b>β-pinene:</b>	5.0 - 9.5 %	7.2
<b>Limonene:</b>	30 - 45 %	40.3
<b>Linalool:</b>	3 - 15 %	10.9

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## CERTIFICATE OF ANALYSIS

**Product:** Bergamot Bergaptene-Free (Calabrian) Essential Oil  
**Lot No.:** 11227-A38  
**Best Before:** March, 2019  
Store in air tight container; in a cool dry area; away from direct sunlight.

<u>Properties</u>	<u>Specifications</u>	<u>Results</u>
<b>Appearance:</b>	Colorless to pale green-yellow.	Complies
<b>Odor:</b>	Fresh and citrusy odor.	Complies
<b>Solubility:</b>	Soluble in alcohol and oils. Insoluble in water.	Complies
<b>Specific Gravity:</b>	0.866 to 0.878 @ 20°C	0.868
<b>Optical Rotation:</b>	+20° to +40° @ 20°C 1.462 to	+30.1°
<b>Refractive Index:</b>	1.468 @ 20°C	1.465
<b>α-pinene:</b>	1 - 2 %	1.0
<b>β-pinene:</b>	5.0 - 9.5 %	7.2
<b>Limonene:</b>	30 - 45 %	40.3
<b>Linalool:</b>	3 - 15 %	10.9

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## CERTIFICATE OF ANALYSIS

**Product:** Bergamot Bergaptene-Free (Calabrian) Essential Oil  
**Lot No.:** 11227-A37  
**Best Before:** February, 2019  
Store in air tight container; in a cool dry area; away from direct sunlight.

<u>Properties</u>	<u>Specifications</u>	<u>Results</u>
<b>Appearance:</b>	Colorless to pale green-yellow.	Complies
<b>Odor:</b>	Fresh and citrusy odor.	Complies
<b>Solubility:</b>	Soluble in alcohol and oils. Insoluble in water.	Complies
<b>Specific Gravity:</b>	0.866 to 0.878 @ 20°C	0.868
<b>Optical Rotation:</b>	+20° to +40° @ 20°C 1.462 to	+30.1°
<b>Refractive Index:</b>	1.468 @ 20°C	1.465
<b>α-pinene:</b>	1 - 2 %	1.0
<b>β-pinene:</b>	5.0 - 9.5 %	7.2
<b>Limonene:</b>	30 - 45 %	40.3
<b>Linalool:</b>	3 - 15 %	10.9

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## CERTIFICATE OF ANALYSIS

**Product:** Bergamot Bergaptene-Free (Calabrian) Essential Oil  
**Lot No.:** 11227-A36-1  
**Best Before:** July, 2018  
Store in air tight container; in a cool dry area; away from direct sunlight.

<u>Properties</u>	<u>Specifications</u>	<u>Results</u>
<b>Appearance:</b>	Colorless to pale green-yellow.	Complies
<b>Odor:</b>	Fresh and citrusy odor.	Complies
<b>Solubility:</b>	Soluble in alcohol and oils. Insoluble in water.	Complies
<b>Specific Gravity:</b>	0.866 to 0.878 @ 20°C	Complies
<b>Optical Rotation:</b>	+20° to +40° @ 20°C 1.462 to	Complies
<b>Refractive Index:</b>	1.468 @ 20°C	Complies
<b>α-pinene:</b>	1 - 2 %	Complies
<b>β-pinene:</b>	5.0 - 9.5 %	Complies
<b>Limonene:</b>	30 - 45 %	Complies
<b>Linalool:</b>	3 - 15 %	Complies

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