

CERTIFICATE OF ANALYSIS

Product: Marjoram Essential Oil (Sweet)
Lot No.: 11089B11220
Best Before: December, 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 pale yellow liquid.	Complies
Odor:	Characteristic spicy and woody marjoram.	Complies
Solubility:	Soluble in ethyl alcohol.	Complies
Refractive Index:	1.455 to 1.480 @ 20°C	1.474
Specific Gravity:	0.860 to 0.890 @ 20°C	0.886
Optical Rotation:	+14° to +24° @ 20°C	Complies
Terpinene-4-ol:	18 - 32 %	22.09
γ-Terpinene:	9 - 18 %	14.27
Sabinene:	3 - 10 %	9.17

Disclaimer & Caution

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CERTIFICATE OF ANALYSIS

Product: Marjoram Essential Oil (Sweet)
Lot No.: 11089A10720
Best Before: July, 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 pale yellow liquid.	Complies
Odor:	Characteristic spicy and woody marjoram.	Complies
Solubility:	Soluble in ethyl alcohol.	Complies
Refractive Index:	1.455 to 1.480 @ 20°C	1.474
Specific Gravity:	0.860 to 0.890 @ 20°C	0.886
Optical Rotation:	+14° to +24° @ 20°C	Complies
Terpinene-4-ol:	18 - 32 %	19.56
γ-Terpinene:	9 - 18 %	12.58
Sabinene:	3 - 10 %	7.50

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CERTIFICATE OF ANALYSIS

Product: Marjoram Sweet Essential Oil
Lot No.: 11089B221
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:	Pale yellow to yellow liquid.	Complies
Odor:	Characteristic spicy marjoram.	Complies
Solubility:	Soluble in ethyl alcohol.	Complies
Refractive Index:	1.468 - 1.480 @ 20°C	Complies
Specific Gravity:	0.890 - 0.906 @ 20°C	Complies
Optical Rotation:	+14° to +24° @ 20°C	Complies

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CERTIFICATE OF ANALYSIS

Product: Marjoram Essential Oil (Sweet)
Lot No.: 11089A10520
Best Before: May, 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 pale yellow liquid.	Complies
Odor:	Characteristic spicy and woody marjoram.	Complies
Solubility:	Soluble in ethyl alcohol.	Complies
Refractive Index:	1.455 to 1.480 @ 20°C	1.474
Specific Gravity:	0.860 to 0.890 @ 20°C	0.886
Optical Rotation:	+14° to +24° @ 20°C	Complies
Terpinene-4-ol:	18 - 32 %	23.41
γ-Terpinene:	9 - 18 %	15.05
Sabinene:	3 - 10 %	8.44

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CERTIFICATE OF ANALYSIS

Product: Marjoram Essential Oil (Sweet)
Lot No.: 11089A104191
Best Before: April, 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 pale yellow liquid.	Complies
Odor:	Characteristic spicy and woody marjoram.	Complies
Solubility:	Soluble in ethyl alcohol.	Complies
Refractive Index:	1.455 to 1.480 @ 20°C	Complies
Specific Gravity:	0.860 to 0.890 @ 20°C	Complies
Optical Rotation:	+14° to +24° @ 20°C	Complies
Terpinene-4-ol:	18 - 32 %	Complies
γ-Terpinene:	9 - 18 %	Complies
Sabinene:	3 - 10 %	Complies

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CERTIFICATE OF ANALYSIS

Product: Marjoram Essential Oil (Sweet)
Lot No.: 11089A11019
Best Before: October, 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 pale yellow liquid.	Complies
Odor:	Characteristic spicy and woody marjoram.	Complies
Solubility:	Soluble in ethyl alcohol.	Complies
Refractive Index:	1.455 to 1.480 @ 20°C	1.474
Specific Gravity:	0.860 to 0.890 @ 20°C	0.886
Optical Rotation:	+14° to +24° @ 20°C	Complies
Terpinene-4-ol:	18 - 32 %	21.38
γ-Terpinene:	9 - 18 %	13.72
Sabinene:	3 - 10 %	8.37

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CERTIFICATE OF ANALYSIS

Product: Marjoram Essential Oil (Sweet)
Lot No.: 11089A10419
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 pale yellow liquid.	Complies
Odor:	Characteristic spicy and woody marjoram.	Complies
Solubility:	Soluble in ethyl alcohol.	Complies
Refractive Index:	1.455 to 1.480 @ 20°C	1.474
Specific Gravity:	0.860 to 0.890 @ 20°C	0.885
Optical Rotation:	+14° to +24° @ 20°C	Complies
Terpinene-4-ol:	18 - 32 %	21.87
γ-Terpinene:	9 - 18 %	14.41
Sabinene:	3 - 10 %	8.55

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CERTIFICATE OF ANALYSIS

Product: Marjoram Essential Oil (Sweet)
Lot No.: 11089A281
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 pale yellow liquid.	Complies
Odor:	Characteristic spicy and woody marjoram.	Complies
Solubility:	Soluble in ethyl alcohol.	Complies
Refractive Index:	1.455 to 1.480 @ 20°C	1.4726
Specific Gravity:	0.860 to 0.890 @ 20°C	Complies
Optical Rotation:	+14° to +24° @ 20°C	Complies
Terpinene-4-ol:	18 - 32 %	Complies
γ-Terpinene:	9 - 18 %	Complies
Sabinene:	3 - 10 %	Complies

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