

## CERTIFICATE OF ANALYSIS

Product	Orange (Sweet) Essential Oil
Latin Name	<i>Citrus Sinensis</i>
CAS No.	8008-75-9
Batch No.	ESC11618E
Manufacture Date	December 2021
Retest Date	December 2023
Method of Extraction	Cold Pressed
Part of Plant Used	Peel / Fruit
Country of Origin	South Africa
Storage Conditions	Store in a cool dark place

Physical Analysis	Specification	Results
Colour	Yellow to Orange	Complies
Odour	Sweet Citrus Aroma	Complies
Appearance	Liquid Oil	Complies
Chemical Analysis	Specification	Result
Refractive Index @ 20°C	1.470 - 1.475	1.4731
Relative Density @ 20°C	0.845 - 0.855	0.8461
Optical Rotation	+ 94 to + 100	+ 97.79

Major Constituent Listing		
Name	Composition %	Specification %
Alpha Pinene	0.487	0.00 - 0.80
Sabinene	0.374	-
Beta Pinene	-	0.00 - 1.00
Myrcene	1.856	1.00 - 2.50
Octanal	0.254	-
Alpha Phellandrene	0.20.5	-
Delta-3-Carene	0.258	-
Limonene	95.916	92 - 98

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Major Constituent Listing		
Name	Composition %	Specification %
Octanol	0.058	-
Linalool	0.150	0.20 - 0.60
Nonanal	0.037	-
Decanal	0.242	0.20 - 0.60
Neral	0.064	-
Geranial	0.089	-
Alpha Terpineol	0.041	-
Valencene	-	-
Alpha Sinensal	-	-
Beta Sinensal	-	-