



# Bulk Naturals Wholesale LLC

**bulknaturalswholesale.com**

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## MANDARIN ESSENTIAL OIL

CERTIFICATE OF ANALYSIS

LOT: BN1108810722/E

**Manufacture Date:** May 2022

**Expiration Date:** May 2024

**QA Signature:** Steven Konert

Specification	Parameter	Result
Appearance	Limpid liquid, brown to green.	Complies
Odor	Characteristic sweet citrusy odor.	Complies
Solubility	Soluble in alcohol and oils. Insoluble in water.	Complies
Specific Gravity	0.848 to 0.856 @ 20°C.	0.850
Refractive Index	1.472 to 1.478 @ 20°C.	1.475
Optical Rotation	+60° to +78° @ 20°C.	71.20
Limonene	max 80%	71.63
gamma terpinene	16 - 22 %	17.83
Alpha-pinene	1.8 - 3.0 %	2.08

**Storage:** Store in air tight containers; in a cool dry area; away from direct sunlight

Shelf life is guaranteed for two years from the date of production if the product is stored in the unopened original container between 15°C - 30°C, protected from light. Containers that have been opened should be tested at least yearly to ensure potency. Although Bulk Naturals Wholesale LLC. believes the above information to be accurate based on the information available to Bulk Naturals, it is the responsibility of the customer and user of the material to perform its own investigation and due diligence prior to using to verify that the product purchased from Bulk Naturals meets their quality requirements and is appropriate for the use to which the product is to be put. The information provided above shall be considered effective only for the lot with which the information is being provided. Use and purchase of this material are subject to Bulk Naturals Wholesale LLC. standard terms and conditions, which supersede any conflicting terms contained on Buyer's purchase order or any document or instrument supplied by Buyer.