



Certificate of Analysis

CITRUS RETICULATA (MANDARIN) PEEL OIL

Product code	: BLPEO1105
Sample designation	: Mandarin Red Essential Oil
Botanical name	: Citrus reticulata
CAS#	: 8008-31-9 ; 84929-38-4
FEMA#	: 2657
EINECS#	: 284-521-0
Lot number	: 112052301
Geographic origin	: Italy
Type of culture	: Organic
Part of the plant used	: Rind/Peel
Extraction method	: Cold pressed
Manufacturing date	: January 2023
Re-test date	: December 2024



ORG/SC/2202/001041

Sensory Check

Feature	Reference	Result
Appearance:	Pale yellow to reddish orange colored liquid	meets
Fragrance:	Fresh, zesty, characteristic citrus-sweet aroma	meets
Color:	Pale yellow to reddish orange	meets
Note classification:	Top Note	

Analytical Check

Properties	Specifications	Results
Refractive index	1.465 - 1.485 @ 20°C	1.474
Specific gravity (g/mL)	0.840 - 0.860 @ 20°C	0.850
Optical Rotation (°)	+63° to +78°	Conforms
Solubility	Soluble in alcohols and fixed oils Insoluble in water	Conforms
Allergens	Limonene CAS No. 5989-27-5 Citral CAS No. 5392-40-5 Linalool CAS No. 78-70-6 Geraniol CAS No. 106-24-1	75.0% 10.5% 0.3% 0,2%

Microbial Analyses	Specifications	Standard	Results
Aerobic Mesophilic Bacterial Count	< 100 CFU/g	ISO 21149	Conforms
Yeast and Mould	< 10 CFU/g	ISO 16212	Conforms
Candida albicans	ABSENT / 1g	ISO 18416	Conforms
Escherichia coli	ABSENT / 1g	ISO 21150	Conforms
Pseudomonas aeruginosa	ABSENT / 1g	ISO 22717	Conforms
Staphylococcus aureus	ABSENT / 1g	ISO 12718	Conforms

Heavy Metal Test	Specifications	Standards	Results
Lead: Pb (mg/kg or ppm)	< 10 ppm	n/a	Conforms
Arsenic: As (mg/kg or ppm)	< 2 ppm	n/a	Conforms
Mercury: Hg (mg/kg or ppm)	< 1 ppm	n/a	Conforms

Stability and Storage

Keep in tightly closed containers in a cool and dry place, protected from sunlight. When stored for more than 24 months, quality should be checked before use.

As this is electronically generated document, hence no signature required.

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