

Certificate of Analysis

Product:	Mandarin, Green Essential Oil
Botanical Name:	Citrus reticulata
LOT #:	BMANGORG150312
Manufacturing Date:	03/12/2016
Best by Date:	03/12/2018
Extraction Method:	Cold Pressed
Part Used:	Peel
Quality:	Pure & Natural
Cultivation:	100% Natural - Chemical & Pesticide Free
Country of Origin:	USA

	Specification	Result
Appearance:	Pale greenish liquid	Complies
Odor:	Characteristic - warm, citrus, fruity	Complies
Solubility:	Soluble in alcohol and oils, Insoluble in water	Complies
Optical Rotation (degrees):	+63 to +78	+71.60 (Complies)
Refractive Index (@ 20°C):	1.4730 to 1.4770	1.4751 (Complies)
Specific Gravity (@ 20°C):	0.8490 to 0.8560	0.8527 (Complies)
Aldehyde Content:	0.4% to 1.80%	0.55% (Complies)

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