



316 Old Hickory Blvd East, Madison, TN 37115

tel (615)612-4270 fax (615)860-9171

orderdesk@naturesgift.com

Balancing Body, Mind and Spirit with Pure Essential Oils

Since 1995

www.naturesgift.com

Green Mandarin *Citrus reticulata (Citrus nobilis)*

Batch No. #BR-59076
Brazil - Organically Produced

Monoterpenes	96.53%
limonene	68.65
γ terpinene	20.16
α pinene	2.12
β myrcene	1.77
β pinene	1.6
terpinolene	0.94
α terpinene	0.46
para cymene	0.35
sabinene	0.26
β phellandrene	0.22

Aldehydes	0.52%
α sinensal	0.34
Unknown	0.1
decanal	0.08

Sesquiterpenes	0.5%
trans trans α farnesene	0.35
β caryophyllene	0.15

Esters	0.6%
Methyl N-methylantranilate	0.6

Monoterpenols	0.52%
α terpineol	0.22
linalol	0.15
thymol	0.09
terpinen-4-ol	0.06

Raw Material: Rind

INCI Name: CITRUS RETICULATA PEEL OIL (Syn : CITRUS NOBILIS PEEL OIL EXPRESSED)

Production Method: Cold Pressed

Date of Analysis: 11/06/2019

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Certificate of Analysis

Green Mandarin

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TEST		VALUE	SPECIFICATIONS
Texture	AQOIN09181	Conform	
Couleur	AQOIN09181	Conform	
Olfaction Directe	AQOIN09181	Conform	
Densité D20/20	AQOIN09182	0.851	0,8480 / 0,8550
Indice de Réfraction 20°C	AQOIN09182	1.473	1,4720 / 1,4780
Pouvoir Rotatoire à 20°C	AQOIN09182	68.84	64,0000 / 78,0000 °
GC profil (area%)	AQOIN1018	Conform	
GC(area%) Pinene alpha	AQOIN1018	2.12	0 / 4,00 %
GC(area%) Camphene	AQOIN1018	0	0 / 0,50 %
GC(area%) Pinene beta	AQOIN1018	1.6	0 / 3,00 %
GC(area%) Sabinene	AQOIN1018	0.26	0 / 0,50 %
GC(area%) Myrcene beta	AQOIN1018	1.77	0 / 3,00 %
GC(area%) Phellandrene alpha	AQOIN1018	0	0 / 0,50 %
GC(area%) Terpinene alpha	AQOIN1018	0.46	0 / 1,00 %
GC(area%) Limonene	AQOIN1018	68.65	65,00 / 75,00 %
GC(area%) Phellandrene beta	AQOIN1018	0.22	0 / 0,50 %
GC(area%) Terpinene gamma	AQOIN1018	20.16	15,00 / 22,00 %
GC(area%) Paracymene	AQOIN1018	0.35	0 / 2,00 %
GC(area%) Terpinolene	AQOIN1018	0.94	0 / 2,00 %
GC(area%) C8 aldehyde	AQOIN1018	0.1	0 / 0,50 %
GC(area%) C9 aldehyde	AQOIN1018	0	0 / 0,50 %
GC(area%) Trans sabinene hydrate	AQOIN1018	0	0 / 0,50 %

Date of Analysis : 05 Nov. 2019

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GC(area%) Citronellal	AQOIN1018	0	0 / 0,50 %
GC(area%) Décanal	AQOIN1018	0.08	0 / 0,50 %
GC(area%) Linalol	AQOIN1018	0.15	0 / 0,50 %
GC(area%) Terpinene 1-ol-4	AQOIN1018	0.06	0 / 0,50 %
GC(area%) Caryophyllene beta	AQOIN1018	0.15	0 / 0,50 %
GC(area%) C12 alcool	AQOIN1018	0	0 / 0,50 %
GC(area%) Terpineol alpha	AQOIN1018	0.22	0 / 1,00 %
GC(area%) Geranial & Neral	AQOIN1018	0	0 / 0,20 %
GC(area%) Lauric aldehyde	AQOIN1018	0	0 / 0,50 %
GC(area%) Trans trans alpha farnesène	AQOIN1018	0.35	0 / 1,00 %
GC(area%) Citronellol	AQOIN1018	0	0 / 0,20 %
GC(area%) Geraniol	AQOIN1018	0	0 / 0,20 %
GC(area%) Methyl anthranilate methyl	AQOIN1018	0.6	0 / 0,80 %
GC(area%) Thymol	AQOIN1018	0.09	0 / 0,50 %
GC(area%) Alpha sinensal (2,6-DiMTH-10-MTHène-2	AQOIN1018	0.34	0 / 1,00 %