

CERTIFICATE OF ANALYSIS

Organic essential oil of Red Mandarin from Italy
100% pure and natural

Botanical name : *Citrus reticulata Blanco*
Commercial name : Organic Red Mandarin
Batch number : **2000070**
Geographical origin : Italy
Production date : December 2019

Physical and chemical data :

	Standards	Results of analysis
Appearance	liquid	Conform
Colour	yellow orangey to red	Conform
Odour	characteristic, fresh, citric note	Conform
Specific gravity at 20°C	0.840 to 0.870	0.8512
Refractive index at 20°C	1.470 to 1.480	1.4745
Optical rotation at 20°C	+64° to +85°	+ 73.90°
Flash point	+49°C	

Table of components (1) :

Components	Contents
α -pinene	2.12%
α -thujene	0.74%
Camphene	0.02%
β -pinene	1.35%
Sabinene	0.23%
Myrcene	1.85%
α -terpinene	0.36%
Limonene	73.30%
β -phellandrene	0.20%
γ -terpinene	16.56%
Trans- β -ocimene	0.02%
Para-cymene	0.49%
Terpinolene	0.85%
Octanal	0.12%
Nonanal	0.02%
Trans-Sabinene Hydrate	0.03%
Citronellal	0.03%
Decanal	0.09%
Linalool	0.12%
Cis-Sabinene Hydrate	0.04%
Octanol	0.01%

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Table of components (2) :

Components	Contents
β -caryophyllene + terpinene-4-ol	0.17%
α -terpineol	0.16%
α -selinene	0.04%
Trans trans- α -farnesene	0.16%
Perillaldehyde	0.04%
Methyl anthranilate	0.43%
Thymol	0.04%
α -sinensal	0.34%
TOTAL	99.93%

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Pesticides analysis :

Pesticide recherché	Résultat	LQ	Pesticide recherché	Résultat	LQ	Pesticide recherché	Résultat	LQ
Alachlor	ND	0,05	Endosulfan sulfate	ND	0,01	Monalide	ND	0,05
Aldrine	ND	0,05	Endrine	ND	0,05	Monocrotophos	ND	0,05
Atrazine	ND	0,05	Ethion	ND	0,01	Myclobutanil	ND	0,05
Azinphos Ethyl-	ND	0,05	Ethofumesate	ND	0,05	Napropamide	ND	0,05
Azinphos Methyl-	ND	0,05	Ethoprophos	ND	0,01	Omethoate	ND	0,05
Benalaxyl	ND	0,05	Etridiazole	ND	0,05	o-Phenylphenol	ND	0,05
Bifenthrine	ND	0,01	Etrimphos	ND	0,01	Oxadiazon	ND	0,01
Bitertanols	ND	0,05	Fenamiphos	ND	0,05	Oxadixyl	ND	0,05
Bromophos Ethyl-	ND	0,01	Fenarimol	ND	0,05	Penconazole	ND	0,01
Bromophos Methyl-	ND	0,01	Fenchlorphos	ND	0,01	Pentachloroaniline	ND	0,01
Bromopropylate	ND	0,01	Fenoxycarb	ND	0,01	Pentachloroanisole	ND	0,01
Carbofuran	ND	0,10	Fenproprathrine	ND	0,05	Permethrines	ND	0,01
Chlordane cis-	ND	0,01	Fenpropimorphe	ND	0,05	Phosalone	ND	0,01
Chlordane trans-	ND	0,01	Fensulfthion	ND	0,05	Phosmet	ND	0,01
Chlorfenvinphos	ND	0,01	Fenthion	ND	0,05	Piperonyl butoxide	ND	0,01
Chlorobenzilate	ND	0,01	Fenvalerates	ND	0,05	Pyrimicarb	ND	0,01
Chlorothalonil	ND	0,05	Fluazifop p-Butyl-	ND	0,01	Pyrimiphos Ethyl-	ND	0,01
Chlorpropham	ND	0,05	Flucythrinate	ND	0,01	Pyrimiphos Methyl-	ND	0,01
Chlorpyrifos Ethyl-	< 0.010	0,01	Flusilazole	ND	0,05	Prochloraz	ND	0,05
Chlorpyrifos Methyl-	ND	0,05	Flutolanil	ND	0,05	Procymidone	ND	0,01
Chlorthal Dimethyl-	ND	0,01	Flutriafol	ND	0,05	Profenophos	ND	0,01
Clomazone	ND	0,01	Fonofos	ND	0,01	Propiconazols	ND	0,05
Coumaphos	ND	0,05	HCH-α	ND	0,01	Propyzamide	ND	0,01
Cyfluthrines	ND	0,05	HCH-β	ND	0,01	Prothiofos	ND	0,01
Cyhalothrineλ-	ND	0,05	HCH-δ	ND	0,05	Pyridaben	ND	0,05
Cypermethrines	ND	0,05	Heptachlor epoxide	ND	0,01	Pyridapenthion	ND	0,05
DDD o,p'-	ND	0,01	Heptachlore	ND	0,01	Pyrimethanil	ND	0,01
DDD p,p'-+DDT o,p'-	ND	0,02	Hexachlorobenzene	ND	0,01	Quinalphos	ND	0,50
DDE o,p'-	ND	0,01	Hexaconazole	ND	0,05	Quizalofop Ethyl-	ND	0,01
DDE p,p'-	ND	0,01	Iprodione	ND	0,01	S421	ND	0,01
DDT p,p'-	ND	0,01	Lindane	ND	0,01	Sebutylazine	ND	0,01
Deltamethrines	ND	0,05	Malaaxon	ND	0,10	Tebuconazole	ND	0,05
Diazinon	ND	0,05	Malathion	ND	0,05	Terbufos	ND	0,05
Dichlofenthion	ND	0,01	Mecarbam	ND	0,05	Terbutylazine	ND	0,01
Dichlofluanide	ND	0,05	Metalaxyl	ND	0,05	Tetradifon	ND	0,05
Diclofop Methyl-	ND	0,01	Metazachlor	ND	0,01	Tetramethrines	ND	0,05
Diethofencarb	ND	0,01	Méthacrifos	ND	0,05	Tolclofos Methyl-	ND	0,01
Difenoconazols	ND	0,01	Methidathion	ND	0,05	Tolylfluanid	ND	0,05
Diflufenican	ND	0,01	Methiocarb	ND	0,10	Triadimefon	ND	0,01
Dimethoate	ND	0,05	Methoxychlore	ND	0,05	Triadimenol	ND	0,05
Diphenylamine	ND	0,05	Metolachlor	ND	0,01	Triazophos	ND	0,05
Endosulfan α-	ND	0,05	Mirex	ND	0,01	Vindocoline	ND	0,01
Endosulfan β-	ND	0,05						

Abréviations :

GC Chromatographie en phase gazeuse
MS Spectrométrie de masse
LQ Limite de quantification
ND Non détecté