



CERTIFICATE of ANALYSIS (COA)

Citronella - Organic (SKU 226 lot 9)

LATIN NAME	<i>Cymbopogon winterianus</i>
COUNTRY OF ORIGIN	India
CULTIVATION METHOD	Certified Organic (USDA, NOP)
TYPE	Essential Oil
EXTRACTION METHOD	Steam Distilled
PLANT PART	Leaves
USE	Aromatherapy, Natural Perfumery

ANALYZED	July 21, 2021
MANUFACTURED	March 1, 2021
RETEST	March 1, 2024

SPECIFIC GRAVITY @ 20C	0,88
REFRACTIVE INDEX @ 20C	1,47
OPTICAL ROTATION @ 20C	0,58

PHYSICAL APPEARANCE	Clear liquid
COLOR	Pale to light yellow
ODOR	Sweet, fresh, lemony with grassy/green undertone
SOLUBILITY	Soluble in alcohol and fixed oils.
SPECIAL USE INSTRUCTIONS	Dilute before use.

COMMENTS	
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COMPONENT	Actual %	CAS
Citronellal	25,91%	106-23-0
Geraniol ²	16,26%	106-24-1
Citronellol ²	15,11%	106-22-9
Geranial ²	14,30%	141-27-5
Neral ²	11,45%	106-26-3
Caryophyllene(E-)	3,72%	13877-93-5
6-methyl-Hept-5-en-2-one	1,48%	110-93-0
Citronellyl acetate	1,30%	150-84-5
Linalool ²	1,15%	78-70-6
neo-Isopulegol	1,04%	59905-53-2
delta-Cadinene	0,73%	483-76-1
Geranyl acetate	0,70%	105-87-3
Isogeranial	0,48%	55722-59-3
n-Decanal	0,48%	112-31-2
Bergamal	0,40%	106-72-9
alpha-Humulene	0,39%	6753-98-6
Caryophyllene oxide	0,36%	1139-30-6

gamma-Cadinene	0,30%	39029-41-9
beta-Elemene	0,26%	515-13-9
Limonene ²	0,20%	138-86-3
Eugenol ²	0,16%	97-53-0
Germacrene D	0,14%	23986-74-5
cis-Rose oxide	0,13%	4610-11-1
(Z)-beta-Ocimene	0,13%	3338-55-4
alpha-Murolene	0,12%	31983-22-9
alpha-Cadinol	0,12%	481-34-5
n-Octanal	0,08%	124-13-0
(E)-, beta-Ocimene	0,08%	3779-61-1
Camphene	0,05%	79-92-5
trans-Rose oxide	0,04%	5258-11-7
3-Methyl-2-(2-methyl-2-butenyl)-furan	0,04%	15186-51-3
neoisopulegol	0,03%	21290-09-5
alpha-Pinene	0,02%	80-56-8
gamma-Murolene	0,02%	30021-74-0
alpha-Cadinene	0,01%	82468-90-4
Terpinolene	0,00%	586-62-9
beta-Pinene	0,00%	127-91-3
Total Deleted Low Purity Peaks	0,44%	
Not Identified Peaks	2,37%	
¹ = Proposition 65 compound, ² = EU Allergen		

MS Results for SKU 226 lot 9

