



CERTIFICATE of ANALYSIS (COA)

COMMON NAME	Chamomile, Roman
LATIN NAME	<i>Anthemis nobilis</i>
COUNTRY OF ORIGIN	USA
CULTIVATION METHOD	Conventional
TYPE	Essential Oil
EXTRACTION METHOD	Steam Distilled
PLANT PART	Flowers
USE	Aromatherapy, Natural Perfumery

SKU	205
LOT #	13
MANUFACTURED	August 1, 2018
BEST BY	August 1, 2021

	SPECIFICATIONS (RANGE)	
SPECIFIC GRAVITY @ 20C	0.892 to 0.91	0.902
REFRACTIVE INDEX @ 20C	1.44 to 1.45	1.445
OPTICAL ROTATION @ 20C	na	na

PHYSICAL APPEARANCE	Transparent liquid	<i>conforms</i>
COLOR	Ranges from colorless to pale yellow. Oil can be light blue or green when freshly distilled.	<i>conforms</i>
ODOR	Sweet, fruity, warm and herbaceous	<i>conforms</i>
SOLUBILITY	Soluble in alcohol and fixed oils	
SPECIAL USE INSTRUCTIONS	Dilute before use	

COMMENTS	
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PRIMARY CONSTITUENTS	
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COMPONENT	Range %	Actual %	CAS
Isoamyl tiglate		18.46%	41519-18-0
isobutyl-Angelate		16.01%	7779-81-9
2-Butenoic acid, 2-methyl-, 2-methyl-2-propenyl ester, (Z)-		9.45%	61692-78-2
methylpentyl-Angelate		9.33%	53082-58-9
Isoamyl angelate		6.56%	10482-55-0
alpha-Pinene		4.67%	80-56-8
trans-Pinocarveol		4.03%	547-61-5
2-Propenoic acid, 2-methyl-, 3-methylbutyl ester		2.91%	7336-27-8
gamma-Murolene		2.72%	30021-74-0

2-Methylbutyl Isobutyrate		2.58%	2445-69-4
Camphene		2.37%	79-92-5
3-Methylpentyl methacrylate		2.33%	113615-00-2
Isobutyl methacrylate		2.25%	97-86-9
Isobutyl isobutyrate		1.74%	97-85-8
Pinocarvone		1.49%	16812-40-1
3-Methyl pentyl-Isobutyrate		0.88%	84254-84-2
Propyl angelate		0.62%	53082-57-8
2-Methyl butyl-2-methyl butyrate		0.61%	2445-78-5
isobutyl-, 2-methyl-Butyrate		0.54%	2445-67-2
Borneol		0.48%	507-70-0
Butyl angelate		0.42%	7785-64-0
beta-Pinene		0.39%	127-91-3
Isoamyl isobutyrate		0.35%	54791
para-Cymene		0.25%	99-87-6
3Z-Hexenyl angelate		0.16%	84060-80-0
Limonene ²		0.13%	138-86-3
Isobutyl tiglate		0.11%	61692-84-0
alpha-Copaene		0.07%	138874-68-7
2-methyl-, ethyl-Butyrate		0.06%	7452-79-1
Sabinene		0.05%	3387-41-5
Total Deleted Low Purity Peaks		3.10%	
Not Identified Peaks		4.86%	
¹ = Proposition 65 compound, ² = EU Allergen			

MS Results for SKU 205 lot 13

