



Turkish Rose *Rosa damascena*

Batch No. TU-58907
 Turkey

Monoterpenes	2.36%
α pinene	1.16
myrcene	0.57
β pinene	0.25
sabinene	0.11
limonene	0.09
γ terpinene	0.06
(E) β ocimene	0.04
terpinolene	0.03
α terpinene	0.03
para cymene	0.02

Ethers	0.65%
cis-Rose oxide	0.37
trans-Rose oxide	0.2
nerol oxide	0.06
1,8 cineole	0.02

Esters	2.56%
geranyl acetate	1.45
citronellyl acetate	0.8
neryl acetate	0.13
benzyl benzoate	0.08
methyl geranate	0.07
citronellyl formate	0.03

Phenols	4.14%
methyl eugenol	2.45
2-phenylethanol	1.01
eugenol	0.68

Monoterpenols	57.71%
citronellol	39.94
geraniol	16.43
linalol	0.55
terpinen-4-ol	0.44
tetradecanol	0.18
α terpineol	0.17

Aldehydes	26.01%
geranial	0.65
citral	0.61
heptanal	0.1
nonanal	0.06
citronellal	0.03

Other	0.83%
nonadecane	14.79
heneicosane	4.67
heptadecane	1.99
eicosane	1.06
tetracosane	0.97
pentadecane	0.39
pentacosane	0.22
hexacosane	0.19
octadecane	0.17
1-hexanol	0.11
tricosane	0.11
docosane	0.11
hexadecane	0.09
1-pentanol	0.03
cis-Hex-3-en-1-ol	0.01

Sesquiterpenes	3.17%
β caryophyllene	0.61
germacrene d	0.61
α guaiene	0.49
α humulene	0.37
δ guaiene	0.37
(E,E)-α-Farnesene	0.24
β elemene	0.2
β copaene	0.11
β-bourbonene	0.10
6,9-guaiadiene	0.05
δ cadinene	0.02

Sequiterpenols	0.24%
elemol	0.05
(E)-Nerolidol	0.04
α cadinol	0.15
(Z,E)-Farnesol	0.80
(E,E)-Farnesol	0.03

Raw Material: Turkish Rose
 Taxonomy: *Rosa damascena*
 Production Steam Dist., Turkey
 Date of Analysis: 3/29/2019

Client



Source



Turkish Rose (*Rosa damascena*)
TU-58907

Sample

Turkish Rose (*Rosa damascena*)
Batch #:..... TU-58907
Type:..... Essential Oil
CAS Number:... 8007-01-0
Nature's Gift

Client



Website

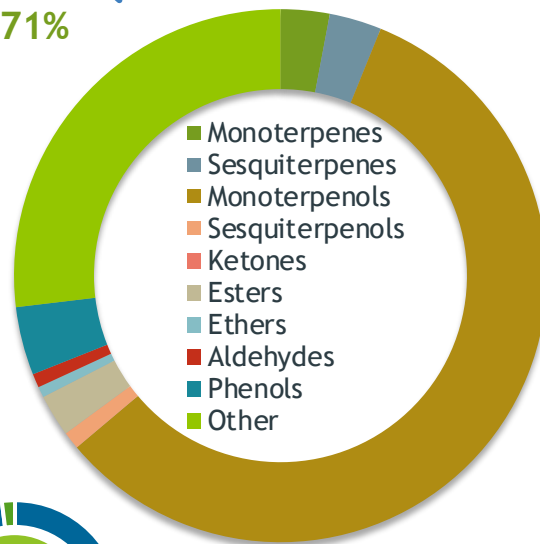


Primary

39.94% | Citronellol
16.43% | Geraniol
11.62% | Nonadecane

Monoterpenols

57.71%



Percentage Identified

Result



Conclusion

No adulterants, diluents, or contaminants were detected via this method. This oil meets the expected profile for genuine essential oil of Turkish Rose (*Rosa damascena*)

Internal Number: | EVS-2804



Essential Validation Services

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Gainesville, FL 32601

317.361.5044 | essentialvalidationservices.com

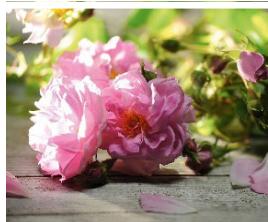
adam@essentialvalidationservices.com

Monoterpenes	2.97%
Sesquiterpenes	3.17%
Monoterpenols	57.71%
Sesquiterpenols	1.07%
Ketones	0.00%
Esters	2.56%
Ethers	0.65%
Aldehydes	0.84%
Phenols	4.14%
Other	26.89%

Client



Source



Turkish Rose (*Rosa damascena*)
TU-58907

Total Percentage		98.02%			
Number	RT	Area %	Compound Name	RI	Chemical Family
1	5.71	0.03%	1-Pentanol	762.00	Aliphatic Alcohol
2	9.81	0.01%	cis-Hex-3-en-1-ol	850.00	Aliphatic Alcohol
3	10.29	0.11%	1-Hexanol	863.00	Aliphatic Alcohol
4	11.57	0.10%	Heptanal	901.00	Aliphatic Aldehyde
5	12.91	1.16%	alpha-Pinene	936.10	Monoterpene
6	14.59	0.11%	Sabinene	973.00	Monoterpene
7	14.71	0.25%	beta-Pinene	974.00	Monoterpene
8	15.31	0.57%	Myrcene	989.20	Monoterpene
9	16.39	0.03%	alpha-Terpinene	1014.00	Monoterpene
10	16.72	0.02%	para-Cymene	1024.30	Monoterpene
11	16.90	0.09%	Limonene	1029.50	Monoterpene
12	17.02	0.02%	1,8-Cineole	1031.80	Monoterpene Ether
13	17.69	0.04%	(E)-beta-Ocimene	1047.70	Monoterpene
14	18.15	0.06%	gamma-Terpinene	1054.00	Monoterpene
15	19.37	0.03%	Terpinolene	1092.10	Monoterpene
16	19.78	0.55%	Linalool	1099.00	Monoterpenol
17	19.94	0.06%	Nonanal	1104.00	Aliphatic Aldehyde
18	20.24	0.37%	cis-Rose oxide	1110.00	Monoterpene Ether
19	20.33	1.01%	2-Phenylethanol	1116.30	Simple Phenolic
20	20.91	0.20%	trans-Rose oxide	1127.33	Monoterpene Ether
21	21.87	0.03%	Citronellal	1154.50	Monoterpene Aldehyde
22	21.95	0.06%	Nerol oxide	1157.50	Monoterpene Ether
23	22.88	0.44%	Terpinen-4-ol	1180.57	Monoterpenol
24	23.37	0.17%	alpha-Terpineol	1191.71	Monoterpenol
25	24.82	39.94%	Citronellol	1229.25	Monoterpenol
26	25.19	0.61%	Citral	1244.12	Monoterpene
27	25.71	16.43%	Geraniol	1255.29	Monoterpenol
28	26.20	0.65%	Geranial	1272.00	Monoterpene Aldehyde
29	26.33	0.03%	Citronellyl formate	1279.00	Monoterpene Ester
30	28.01	0.07%	Methyl geranate	1323.80	Monoterpene Ester
31	28.96	0.80%	Citronellyl acetate	1357.83	Monoterpene Ester
32	29.22	0.68%	Eugenol	1365.89	Phenylpropanoid
33	29.34	0.13%	Neryl acetate	1362.90	Monoterpene Ester
34	29.97	1.45%	Geranyl acetate	1379.20	Monoterpene Ester
35	30.30	0.10%	beta-Bourbonene	1388.70	Sesquiterpene

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