

Rose Otto *Rosa damascena*

Batch No. BU-59105

Bulgaria

Monoterpenes 1.6%

α pinene	0.67
myrcene	0.41
β pinene	0.17
sabinene	0.09
γ terpinene	0.08
limonene	0.06
α terpinene	0.03
(E) β ocimene	0.03
terpinolene	0.03
(Z) β ocimene	0.02
o-cymene	0.01

Aldehydes 1.74%

citral	1.00
neral	0.74
heptanal	0.19
nonanal	0.09
benzaldehyde	0.04
phenylacetaldehyde	0.04
hexanal	0.03
undecanal	0.03
tetradecanal	0.02
tridecanal	0.01
hexadecanal	0.01

Ethers 0.2%

trans-rose oxide	0.12
nerol oxide	0.05
1,8-cineole	0.03
humulene epoxide II	0.03

Esters 1.76%

geranyl acetate	1.64
neryl acetate	0.12
benzyl benzoate	0.04
methyl geranate	0.03
citronellyl formate	0.01

Ketones

6-methyl-5-hepten-2-one	0.06
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Monoterpenols 52.7%

geraniol	22.67
citronellol	17.39
nerol	10.51
linalool	1.25
terpinen-4-ol	0.52
α terpineol	0.36
tetradecanol	0.29
cis linalool oxide (5)(furanoid)	0.03
trans-verbenol	0.03
para-mentha-1,5-dien-8-ol	0.03
cis-para-menth-2-en-1-ol	0.02
trans-pinocarveol	0.02
isopulegol	0.01
cis-isogeraniol	0.01

Other 28.2%

nonadecane	13.30
heneicosane	5.65
nonadecene	3.87
heptadecane	2.12
eicosane	1.38
tricosane	1.15
pentadecane	0.30
octadecane	0.22
1-hexenol	0.21
1-octadecanol	0.13
docosane	0.13
hexadecane	0.09
cis-hex-3-en-1-ol	0.06
1-pentanol	0.02
prenol	0.01
3-methylpentanol	0.01
(E) 2 hexenol	0.01
6-methyl-5-hepten-2-ol	0.01
1-octadecene	0.01
1-eicosene	0.01

Phenols 0.09%

2-phenylethanol	1.58
methyl eugenol	1
benzyl alcohol	0.02

Sesquiterpenes 2.28%

β caryophyllene	0.74
germacrene d	0.65
cis caryophyllene	0.34
α humulene	0.29
β elemene	0.12
β cadinene	0.07
α selinene	0.07
(E,E) α farnesene	0.07
β selinene	0.05
β copaene	0.05
aromadendrene	0.03
6,9-guaiadiene	0.01

Sequiterpenols 2.58%

(Z,E)-Farnesol	1.95
α eudesmol	0.42
elemol	0.21
γ eudesmol	0.15
(E) nerolidol	0.08
1-pentadecanol	0.05
1-hexadecanol	0.04
guaiol	0.01
τ muurolol	0.01

Date of Analysis: 10/3/2020

Client



Source



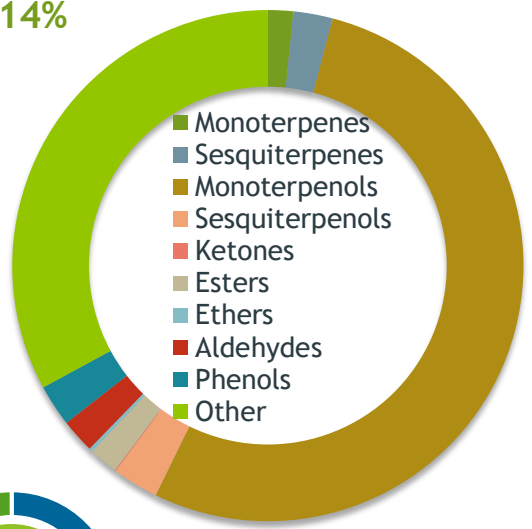
Rose Otto (Rosa damascena)
BU-59105

Sample

Rose Otto (Rosa damascena)
Batch #:..... BU-59105
Type:..... Essential Oil
CAS Number:... 8007-01-0
Nature's Gift

Monoterpenols

53.14%



Client



Website



Primary

22.67% Geraniol
17.39 Citronellol
13.30% Nonadecane



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 Rose Otto (Rosa damascena)

Internal Number: | EVS-3922



Essential Validation Services

747 SW 2nd Ave IMB 12 Suite 306
Gainesville, FL 32601

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<https://essentialvalidationservices.com/>

Alan Christen

Monoterpenes	1.60%
Sesquiterpenes	2.49%
Monoterpenols	53.14%
Sesquiterpenols	2.92%
Ketones	0.06%
Esters	1.85%
Ethers	0.23%
Aldehydes	2.16%
Phenols	2.64%
Other	32.91%

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Client



Source

Rose Otto (*Rosa damascena*)

BU-59105

Total Percentage		95.78%		
Number	RT	Area %	Compound Name	Chemical Family
1	3.80	0.02%	1-Pentanol	Aliphatic Alcohol
2	3.95	0.01%	Prenol	Aliphatic Ester
3	4.44	0.03%	Hexanal	Aliphatic Aldehyde
4	5.67	0.01%	3-Methylpentanol	Aliphatic Alcohol
5	5.92	0.06%	cis-Hex-3-en-1-ol	Aliphatic Alcohol
6	6.25	0.01%	(E)-2-Hexenol	Aliphatic Alcohol
7	6.35	0.21%	1-Hexanol	Aliphatic Alcohol
8	7.40	0.19%	Heptanal	Aliphatic Aldehyde
9	8.52	0.67%	alpha-Pinene	Monoterpene
10	9.65	0.04%	Benzaldehyde	Simple Phenolic
11	10.11	0.09%	Sabinene	Monoterpene
12	10.27	0.17%	beta-Pinene	Monoterpene
13	10.68	0.06%	6-Methyl-5-hepten-2-one	Aliphatic Ketone
14	10.86	0.41%	Myrcene	Monoterpene
15	11.07	0.01%	6-Methyl-5-hepten-2-ol	Aliphatic Alcohol
16	12.00	0.03%	alpha-Terpinene	Monoterpene
17	12.32	0.01%	o-Cymene	Monoterpene
18	12.54	0.06%	Limonene	Monoterpene
19	12.68	0.03%	1,8-Cineole	Monoterpene Ether
20	12.78	0.02%	Benzyl alcohol	Simple Phenolic
21	12.91	0.02%	(Z)-beta-Ocimene	Monoterpene
22	13.16	0.04%	Phenylacetaldehyde	Aliphatic Aldehyde
23	13.38	0.03%	(E)-beta-Ocimene	Monoterpene
24	13.86	0.08%	gamma-Terpinene	Monoterpene
25	14.45	0.03%	cis-Linalool oxide (5) (furanoid)	Monoterpenol
26	15.10	0.03%	Terpinolene	Monoterpene
27	15.84	1.25%	Linalool	Monoterpenol
28	16.05	0.09%	Nonanal	Aliphatic Aldehyde
29	16.30	1.58%	2-Phenylethanol	Simple Phenolic
30	16.90	0.02%	cis-para-Menth-2-en-1-ol	Monoterpenol
31	17.03	0.12%	trans-Rose oxide	Monoterpene Ether
32	17.61	0.02%	trans-Pinocarveol	Monoterpenol
33	17.89	0.03%	trans-Verbenol	Monoterpenol
34	18.22	0.05%	Nerol oxide	Monoterpene Ether
35	18.43	0.01%	Isopulegol	Monoterpenol

Client



Source



Rose Otto (*Rosa damascena*)
BU-59105

Number	RT	Area %	Compound Name	Chemical Family
36	19.088	0.03%	para-Mentha-1,5-dien-8-ol	Monoterpenol
37	19.22	0.01%	1-Nonanol	Fatty alcohol
38	19.47	0.52%	Terpinen-4-ol	Monoterpenol
39	20.17	0.36%	alpha-Terpineol	Monoterpenol
40	21.66	10.51%	Nerol	Monoterpenol
41	21.85	17.39%	Citronellol	Monoterpenol
42	22.19	0.74%	Neral	Monoterpene Aldehyde
43	22.94	22.67%	Geraniol	Monoterpenol
44	23.39	0.01%	cis-Isogeraniol	Monoterpenol
45	23.54	1.00%	Citral	Monoterpene Aldehyde
46	23.81	0.01%	Citronellyl formate	Monoterpene Ester
47	25.33	0.03%	Undecanal	Sesquiterpene Aldehyde
48	25.91	0.03%	Methyl geranate	Monoterpene Ester
49	27.55	0.12%	Neryl acetate	Monoterpene Ester
50	28.40	1.64%	Geranyl acetate	Monoterpene Ester
51	28.77	0.12%	beta-Elemene	Sesquiterpene
52	29.28	1.00%	Methyl eugenol	Phenylpropanoid
53	29.96	0.74%	beta-Caryophyllene	Sesquiterpene
54	30.40	0.05%	beta-Copaene	Sesquiterpene
55	30.67	0.34%	cis-Caryophyllene	Sesquiterpene
56	30.99	0.03%	Aromadendrene	Sesquiterpene
57	31.43	0.29%	alpha-Humulene	Sesquiterpene
58	32.28	0.01%	6,9-Guaiadiene	Sesquiterpene
59	32.49	0.65%	Germacrene D	Sesquiterpene
60	32.80	0.05%	beta-Selinene	Sesquiterpene
61	33.13	0.07%	alpha-Selinene	Sesquiterpene
62	33.49	0.30%	Pentadecane	Alkane
63	33.58	0.07%	(E,E)-alpha-Farnesene	Sesquiterpene
64	33.86	0.01%	Tridecanal	Sesquiterpene Aldehyde
65	34.04	0.07%	beta-Cadinene	Sesquiterpene
66	35.21	0.21%	Elemol	Sesquiterpenol
67	35.78	0.08%	(E)-Nerolidol	Sesquiterpenol
68	37.40	0.09%	Hexadecane	Alkane
69	37.49	0.03%	Humulene epoxide II	Sesquiterpene Ether
70	37.80	0.02%	Tetradecanal	Sesquiterpene Aldehyde
71	37.96	0.01%	Guaiol	Sesquiterpenol

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BU-59105

72	38.37	0.15%	gamma-Eudesmol	Sesquiterpenol
73	38.82	0.01%	T-Muurolol	Sesquiterpenol
74	39.22	0.42%	alpha-Eudesmol	Sesquiterpenol
75	40.21	0.29%	Tetradecanol	Monoterpenol
76	41.11	2.12%	Heptadecane	Alkane
77	41.55	1.95%	(E,Z)-Farnesol	Sesquiterpenol
78	43.18	0.04%	Benzyl benzoate	Phenolic Ester
79	43.72	0.05%	1-Pentadecanol	Sesquiterpenol
80	44.63	0.22%	Octadecane	Alkane
81	44.88	0.01%	1-Octadecene	Alkene
82	45.14	0.01%	Hexadecanal	Sesquiterpene Aldehyde
83	47.09	3.87%	Nonadecene	Alkene
84	47.56	0.04%	1-Hexadecanol	Sesquiterpenol
85	48.06	13.30%	Nonadecane	Alkane
86	51.21	1.38%	Eicosane	Alkane
87	51.79	0.01%	1-Eicosene	Diterpene
88	54.11	0.13%	1-Octadecanol	Diterpenol
89	54.31	5.65%	Heneicosane	Alkane
90	57.15	0.13%	Docosane	Alkane
91	58.68	1.15%	Tricosane	Alkane

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