

## Rose Otto *Rosa damascena*

Batch No. BG-59263  
Bulgaria

<b>Monoterpenes</b>	<b>0.97%</b>	<b>Monoterpenols</b>	<b>51.76%</b>	<b>Sesquiterpenes</b>	<b>2.34%</b>
α pinene	0.37	geraniol	21.22	β caryophyllene	0.65
myrcene	0.25	citronellol	18.53	germacrene d	0.52
β pinene	0.10	nerol	10.33	α guaiene	0.27
limonene	0.09	linalool	0.97	δ guaiene	0.27
sabinene	0.05	terpinen-4-ol	0.30	α humulene	0.25
γ terpinene	0.04	α terpineol	0.28	β elemene	0.09
α terpinene	0.02	cis-isogeraniol	0.07	(E,E) α farnesene	0.07
(E) β ocimene	0.02	trans-para-menth-2-en-1-ol	0.01	aciphyllene	0.07
terpinolene	0.02	trans-verbenol	0.01	δ cadinene	0.06
(Z) β ocimene	0.01	para-mentha-1,5-dien-8-ol	0.01	β gurjunene	0.04
		cis-linalool oxide (5) (furanoid)	0.02	γ muurolene	0.03
		trans-linalool oxide (5) (furanoid)	0.01	aromadendrene	0.01
		tetradecanol	0.35	γ cadinene	0.01
<b>Esters</b>	<b>2.17%</b>	<b>Phenols</b>	<b>2.58%</b>	<b>Sequiterpenols</b>	<b>3.69%</b>
geranyl acetate	1.50	methyleugenol	1.11	(Z,E) farnesol	2.35
citronellyl acetate	0.46	eugenol	0.88	β eudesmol	0.46
neryl acetate	0.11	2-phenylethanol	0.59	elemol	0.22
methyl geranate	0.05			(E,Z) farnesol	0.2
2-phenylethyl tiglate	0.03			γ eudesmol	0.16
(E,E) farnesyl acetate	0.02			(E) nerolidol	0.09
		<b>Other</b>	<b>27.69%</b>	(E,E) farnesol	0.07
<b>Ethers</b>	<b>0.49%</b>	nonadecane	11.92	1 pentadecanol	0.06
cis-rose oxide	0.22	heneicosane	5.65	τ cadinol	0.03
trans-rose oxide	0.12	1 hexadecanol	4.28	α cadinol	0.03
nerol oxide	0.06	heptadecane	1.98	α muurolol	0.02
caryophyllene oxide	0.06	tricosane	1.31		
humulene epoxide II	0.02	eicosane	1.25	<b>Aldehydes</b>	<b>1.98%</b>
1,8 cineole	0.01	pentadecane	0.28	geranial	0.93
		octadecane	0.18	neral	0.69
		1-octadecanol	0.18	heptanal	0.10
<b>Ketones</b>	<b>0.07%</b>	eicosene	0.17	nonanal	0.06
6-methyl-5-hepten-2-one	0.04	phytol	0.16	(E,Z) farnesal	0.05
2-undecanone	0.01	docosane	0.15	hexadecanal	0.03
geranylacetone	0.02	1-hexanol	0.12	tetradecanal	0.03
		hexadecane	0.06	phenylacetaldehyde	0.02
		cis-hex-3-en-1-ol	0.03	undecanal	0.02
		6-methyl-5-hepten-2-ol	0.01	tridecanal	0.02
		1-octanol	0.01	hexanal	0.01
		1 nonanol	0.01	decanal	0.01
		tridecane	0.01	α sinensal	0.01
		1-octadecene	0.01		

Client



Source



Rose Otto (Rosa damascena)  
BG-59263

Sample

Rose Otto (Rosa damascena)  
Batch #:..... | BG-59263  
Type:..... | Essential Oil  
CAS Number:... | 8007-01-0  
**Nature's Gift**

Client



Website

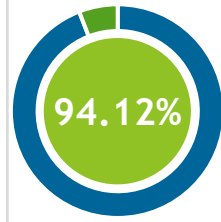
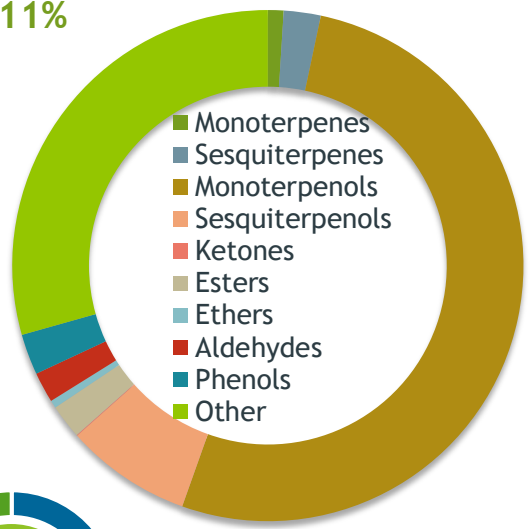


Primary

**21.22%** | Geraniol  
**18.53%** | Citronellol  
**11.92%** | Nonadecane

**Monoterpenols**

52.11%



**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-5158



**Essential Validation Services**

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

317.361.5044 |  
<https://essentialvalidationservices.com/>

*Alan Christen*

Monoterpenes	0.99%
Sesquiterpenes	2.34%
Monoterpenols	52.11%
Sesquiterpenols	7.97%
Ketones	0.05%
Esters	2.17%
Ethers	0.49%
Aldehydes	1.93%
Phenols	2.58%
Other	29.37%

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Total Percentage		94.12%		
Number	RT	Area %	Compound Name	Chemical Family
1	4.18	0.01%	Hexanal	Aliphatic Aldehyde
2	5.65	0.03%	cis-Hex-3-en-1-ol	Aliphatic Alcohol
3	6.07	0.12%	1-Hexanol	Aliphatic Alcohol
4	7.04	0.10%	Heptanal	Aliphatic Aldehyde
5	8.09	0.37%	alpha-Pinene	Monoterpene
6	9.66	0.05%	Sabinene	Monoterpene
7	9.82	0.10%	beta-Pinene	Monoterpene
8	10.25	0.04%	6-Methyl-5-hepten-2-one	Aliphatic Ketone
9	10.42	0.25%	Myrcene	Monoterpene
10	10.70	0.01%	6-Methyl-5-hepten-2-ol	Aliphatic Alcohol
11	11.54	0.02%	alpha-Terpinene	Monoterpene
12	12.08	0.09%	Limonene	Monoterpene
13	12.17	0.01%	1,8-Cineole	Monoterpene Ether
14	12.48	0.01%	(Z)-beta-Ocimene	Monoterpene
15	12.78	0.02%	Phenylacetaldehyde	Aliphatic Aldehyde
16	12.94	0.02%	(E)-beta-Ocimene	Monoterpene
17	13.40	0.04%	gamma-Terpinene	Monoterpene
18	14.00	0.02%	cis-Linalool oxide (5) (furanoid)	Monoterpenol
19	14.19	0.01%	1-Octanol	Aliphatic Alcohol
20	14.63	0.02%	Terpinolene	Monoterpene
21	14.73	0.01%	trans-Linalool oxide (5) (furanoid)	Monoterpenol
22	15.48	0.97%	Linalool	Monoterpenol
23	15.59	0.06%	Nonanal	Aliphatic Aldehyde
24	15.80	0.22%	cis-Rose oxide	Monoterpene Ether
25	16.02	0.59%	2-Phenylethanol	Simple Phenolic
26	16.52	0.12%	trans-Rose oxide	Monoterpene Ether
27	17.36	0.01%	trans-para-Menth-2-en-1-ol	Monoterpenol
28	17.49	0.01%	trans-Verbenol	Monoterpenol
29	17.75	0.06%	Nerol oxide	Monoterpene Ether
30	18.77	0.01%	para-Mentha-1,5-dien-8-ol	Monoterpenol
31	18.85	0.01%	1-Nonanol	Fatty alcohol
32	19.07	0.30%	Terpinen-4-ol	Monoterpenol
33	19.82	0.28%	alpha-Terpineol	Monoterpenol
34	20.28	0.01%	Decanal	Aliphatic Aldehyde
35	21.32	10.33%	Nerol	Monoterpenol

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Number	RT	Area %	Compound Name	Chemical Family
36	21.551	18.53%	Citronellol	Monoterpenol
37	21.75	0.69%	Neral	Monoterpene Aldehyde
38	21.97	0.07%	cis-Isogeraniol	Monoterpenol
39	22.64	21.22%	Geraniol	Monoterpenol
40	23.13	0.93%	Geranial	Monoterpene Aldehyde
41	24.21	0.01%	2-Undecanone	Aliphatic Ketone
42	24.55	0.01%	Tridecane	Alkane
43	24.88	0.02%	Undecanal	Sesquiterpene Aldehyde
44	25.45	0.05%	Methyl geranate	Monoterpene Ester
45	26.69	0.46%	Citronellyl acetate	Monoterpene Ester
46	26.86	0.88%	Eugenol	Phenylpropanoid
47	27.08	0.11%	Neryl acetate	Monoterpene Ester
48	27.93	1.50%	Geranyl acetate	Monoterpene Ester
49	28.29	0.09%	beta-Elemene	Sesquiterpene
50	28.93	1.11%	Methyl eugenol	Phenylpropanoid
51	29.45	0.65%	beta-Caryophyllene	Sesquiterpene
52	29.89	0.04%	beta-Gurjunene	Sesquiterpene
53	30.16	0.27%	alpha-Guaiene	Sesquiterpene
54	30.47	0.01%	Aromadendrene	Sesquiterpene
55	30.78	0.02%	Geranylacetone	Monoterpene
56	30.94	0.25%	alpha-Humulene	Sesquiterpene
57	31.81	0.03%	gamma-Murolene	Sesquiterpene
58	32.01	0.52%	Germacrene D	Sesquiterpene
59	32.64	0.07%	Aciphyllene	Sesquiterpene
60	32.87	0.27%	delta-Guaiene	Sesquiterpene
61	33.00	0.28%	Pentadecane	Alkane
62	33.12	0.07%	(E,E)-alpha-Farnesene	Sesquiterpene
63	33.35	0.01%	gamma-Cadinene	Sesquiterpene
64	33.42	0.02%	Tridecanal	Sesquiterpene Aldehyde
65	33.58	0.06%	delta-Cadinene	Sesquiterpene
66	34.85	0.22%	Elemol	Sesquiterpenol
67	35.39	0.09%	(E)-Nerolidol	Sesquiterpenol
68	35.96	0.06%	Caryophyllene oxide	Sesquiterpene Ether
69	36.18	0.03%	2-Phenylethyl tiglate	Phenolic Ester
70	36.91	0.06%	Hexadecane	Alkane
71	37.05	0.02%	Humulene epoxide II	Sesquiterpene Ether

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72	37.38	0.03%	Tetradecanal	Sesquiterpene Aldehyde
73	37.99	0.16%	gamma-Eudesmol	Sesquiterpenol
74	38.39	0.03%	T-Cadinol	Sesquiterpenol
75	38.46	0.03%	alpha-Cadinol	Sesquiterpenol
76	38.57	0.02%	alpha-Muurolol	Sesquiterpenol
77	38.82	0.46%	beta-Eudesmol	Sesquiterpenol
78	39.72	0.35%	Tetradecanol	Monoterpenol
79	40.33	0.20%	(E,Z)-Farnesol	Sesquiterpenol
80	40.64	1.98%	Heptadecane	Alkane
81	40.87	0.05%	(E,Z)-Farnesal	
82	41.18	2.35%	(Z,E)-Farnesol	Sesquiterpenol
83	41.85	0.07%	(E,E)-Farnesol	Sesquiterpenol
84	42.06	0.01%	alpha-Sinensal	Sesquiterpene Aldehyde
85	43.24	0.06%	1-Pentadecanol	Sesquiterpenol
86	44.16	0.18%	Octadecane	Alkane
87	44.43	0.01%	1-Octadecene	Alkene
88	44.71	0.03%	Hexadecanal	Sesquiterpene Aldehyde
89	45.21	0.02%	(E,E)-Farnesyl acetate	Sesquiterpene Ester
90	46.64	4.28%	1-Hexadecanol	Sesquiterpenol
91	47.63	11.92%	Nonadecane	Alkane
92	49.85	0.17%	Eicosene	Diterpene
93	50.77	1.25%	Eicosane	Alkane
94	52.95	0.18%	1-Octadecanol	Diterpenol
95	53.67	0.16%	Phytol	Diterpenol
96	53.88	5.65%	Heneicosane	Alkane
97	56.78	0.15%	Docosane	Alkane
98	58.49	1.31%	Tricosane	Alkane

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