



CERTIFICATE of ANALYSIS (COA)

COMMON NAME	Rose Otto, Bulgaria - Organic
LATIN NAME	<i>Rosa x damascena</i>
COUNTRY OF ORIGIN	Bulgaria
CULTIVATION METHOD	Certified Organic (USDA, NOP)
TYPE	Essential Oil
EXTRACTION METHOD	Hydrodistilled
PLANT PART	Flowers
USE	Aromatherapy, Natural Perfumery

SKU	880
LOT #	24
MANUFACTURING DATE	June 2023
BEST BY DATE	June 2026

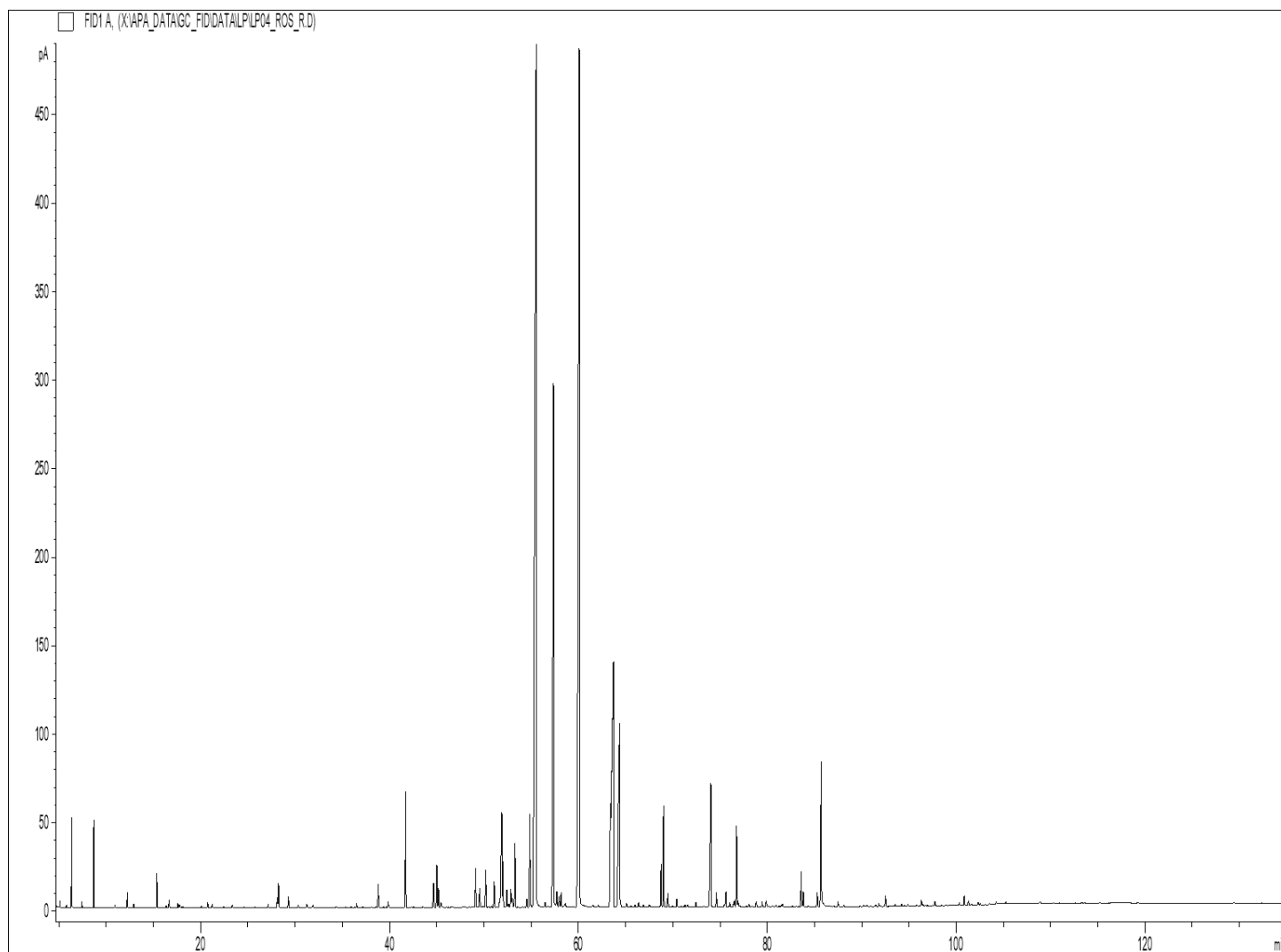
	SPECIFICATIONS (Range)	
SPECIFIC GRAVITY @20°C	0.848-0.880	0.848
REFRACTIVE INDEX @20°C	1.452-1.470	1.4638
OPTICAL ROTATION @20°C	-5° to -1.8°	-3.07°

PHYSICAL APPEARANCE	Transparent liquid at temperatures above 75°F. Crystalline / Gel-like consistency at temperatures below 75°F.	<i>Conforms</i>
COLOR	Colorless to pale yellow	<i>Conforms</i>
ODOR	Warm, deeply floral, rosy.	<i>Conforms</i>
SOLUBILITY	Soluble in fixed oils; partially soluble in alcohol.	
SPECIAL USE INSTRUCTIONS	Dilute before use. This product may require very gentle warming to liquefy due to wax content.	

PRIMARY CONSTITUENTS	Citronellol, Nerol, Geraniol, N-Paraffins.
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THIRD PARTY LAB ANALYSIS (GCMS)

CHROMATOGRAPHIC PROFILE:



- ORGANIC ROSE OTTO EO - SKU 880 LOT 24 -

Peaks	RT (min)	Compound name	%	Standard (%)	Allergens (%)
1	5.81	ETHYL FORMATE	0.02		
2	6.33	ETHANOL	0.60	Tr. - 3.0	
3	7.44	PENTANAL	0.04		
4	8.70	alpha-PINENE	0.67		0.67
5	10.95	HEXANAL	0.02		
6	12.25	beta-PINENE	0.15		0.15
7	12.93	SABINENE	0.04		
8	15.38	beta-MYRCENE	0.37		
9	16.36	alpha-TERPINENE	0.03		0.03
10	16.65	HEPTANAL	0.09		
11	17.57	LIMONENE	0.05		0.05
12	17.75	ALIPHATIC ALCOHOL	0.05		
13	18.02	1,8-CINEOLE	0.01		
14	20.07	cis-beta-OCIMENE	0.02		
15	20.74	gamma-TERPINENE	0.08		
16	21.23	trans-beta-OCIMENE	0.04		
17	22.43	p-CYMENE	0.02		
18	23.34	TERPINOLENE	0.03		0.03
19	27.15	5-HEPTEN-2-ONE, 6-METHYL-	0.04		
20	28.11	1-HEXANOL	0.14		
21	28.24	ROSE cis-OXIDE	0.31		
22	29.28	ROSE trans-OXIDE	0.14		
23	30.33	3-HEXEN-1-OL	0.03		
24	31.23	NONANAL	0.05		
25	31.90	ROSEFURAN	0.04		
26	34.36	LINALOOL cis-OXIDE	0.02		
27	35.37	1-HEPTANOL	0.01		
28	35.94	5-HEPTEN-2-OL, 6-METHYL-	0.01		
29	36.51	NERYL OXIDE	0.05		
30	37.18	CITRONELLAL	0.01		
31	38.54	DECANAL	0.01		
32	38.80	PENTADECANE	0.37		
33	39.85	beta-BOURBONENE	0.11		
34	41.70	LINALOOL	1.44		1.44
35	42.31	trans-p-MENTH-2-EN-1-OL	0.01		
36	43.52	epsilon-CADINENE	0.03		
37	44.66	alpha-GUAIENE	0.41		
38	45.00	beta-CARYOPHYLLENE	0.60		0.60
39	45.17	TERPINENE-4-OL	0.25		
40	45.45	HEXADECANE	0.11		
41	46.53	CITRONELLYL FORMATE	0.02		
42	46.73	cis-p-MENTH-2-EN-1-OL	0.02		
43	47.81	ALIPHATIC ESTER	0.03		

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Peaks	RT (min)	Compound name	%	Standard (%)	Allergens (%)
44	48.45	SESQUITERPENE	0.01		
45	48.87	1-NONANOL	0.02		
46	49.13	CITRONELLYL ACETATE	0.52		
47	49.56	alpha-HUMULENE	0.30		
48	49.96	SESQUITERPENE	0.04		
49	50.20	NERAL	0.51		0.51
50	50.48	LAVANDULAL	0.02		
51	50.81	gamma-MUUROLENE	0.02		
52	51.08	alpha-TERPINEOL	0.38		0.38
53	51.65	SESQUITERPENE	0.08		
54	51.90	HEPTADECANE	1.96	1.0 - 2.5	
55	52.02	GERMACRENE D	0.66		
56	52.44	alpha-BULNESENE	0.27		
57	52.60	SESQUITERPENE	0.05		
58	52.85	1-HEPTADECENE	0.30	0.10 - 0.35	
59	53.01	NERYL ACETATE	0.19		
60	53.30	GERANIAL	0.88		0.88
61	54.03	ALKEN COMPOUND	0.01		
62	54.55	E,E-alpha-FARNESENE	0.14		
63	54.87	GERANYL ACETATE	1.30		1.30
64	54.98	TERPENIC COMPOUND	0.04		
65	55.52	CITRONELLOL	25.47	20.0 - 34.0	25.47
66	56.48	ALIPHATIC ALCOHOL	0.06		
67	56.78	MYRTENOL	0.02		
68	57.37	NEROL	9.80	5.0 - 12.0	
69	57.73	OCTADECANE	0.30		
70	57.94	cis-ISOGERANIOL	0.18		
71	58.18	trans-ISOGERANIOL	0.21		
72		2-PHENYLETHYL ACETATE			
73	58.62	OCTADECENE ISOMER	0.12		
74	59.20	TERPENIC COMPOUND	0.02		
75	60.10	GERANIOL	21.56	14.0 - 22.0	21.56
76	60.58	E-GERANYL ACETONE	0.02		
77	61.46	BENZYL ALCOHOL	0.01		0.01
78	61.58	TERPENIC COMPOUND	0.02		
79	62.11	ISOGERANIOL ISOMER	0.03		
80	62.72	ALIPHATIC ALCOHOL	0.01		
81	63.41	PHENYLETHYL ALCOHOL	0.85	≤ 3.5	
82	63.72	NONADECANE	9.30	8.0 - 15.0	
83	64.36	9-NONADECENE	4.91	2.3 - 3.7	
84	65.11	NONADECENE ISOMER	0.06		
85	65.56	NONADECENE ISOMER	0.02		
86	66.02	NONADECENE ISOMER	0.04		

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Peaks	RT (min)	Compound name	%	Standard (%)	Allergens (%)
87	66.37	CITRONELIC ESTER	0.08		
88	66.69	PHENYLETHYLIC ESTER	0.01		
89	66.90	CARYOPHYLLENE OXIDE	0.04		
90	67.52	2-PHENYLETHYL VALERATE	0.04		
91	67.63	PHENYLETHYLIC ESTER	0.02		
92	67.87	CITRONELIC ESTER	0.02		
93	68.04	TERPENIC COMPOUND	0.01		
94	68.78	EICOSANE	0.64		
95	69.03	METHYLEUGENOL	1.38	0.80 - 3.0	
96	69.49	EICOSENE ISOMER	0.20		
97	69.91	TERPENIC COMPOUND	0.02		
98	70.04	EPOXY-6,7-HUMULENE	0.02		
99	70.43	NEROLIDOL	0.13		
100	70.88	EICOSENE ISOMER	0.02		
101	71.08	ALIPHATIC ESTER	0.01		
102	71.20	TERPENIC COMPOUND	0.02		
103	71.32	TERPENIC COMPOUND	0.03		
104	71.57	TERPENIC COMPOUND	0.04		
105	72.45	ELEMOL	0.08		
106	73.28	ALIPHATIC ESTER	0.02		
107	74.04	HENEICOSANE	2.60	3.0 - 5.5	
108	74.63	HENEICOSENE ISOMER	0.21		
109	74.96	TERPENIC COMPOUND	0.01		
110	75.46	ALDEHYDE COMPOUND	0.03		
111	75.63	HENEICOSENE ISOMER	0.25		
112	76.04	HENEICOSENE ISOMER	0.07		
113	76.42	HENEICOSENE ISOMER	0.05		
114	76.53	MINT SULFIDE	0.10		
115	76.76	EUGENOL	1.21		1.21
116	76.93	10-epi-gamma-EUDESMOL	0.09		
117	77.05	ALIPHATIC ESTER	0.01		
118	77.13	HENEICOSENE ISOMER	0.02		
119	77.46	alpha-MUUROLOL	0.02		
120	77.81	2-PHENYLETHYL TIGLATE	0.02		
121	78.08	ALIPHATIC ESTER	0.05		
122	78.39	SESQUITERPENOL	0.02		
123	78.82	DOCOSANE	0.10		
124	79.46	alpha-EUDESMOL	0.08		
125	79.89	beta-EUDESMOL	0.12		
126		alpha-CADINOL			
127	80.14	TERPENIC COMPOUND	0.01		
128	80.54	SESQUITERPENOL	0.04		
129	80.84	TERPENIC COMPOUND	0.01		

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Peaks	RT (min)	Compound name	%	Standard (%)	Allergens (%)
130	80.96	TERPENIC COMPOUND	0.03		
131	81.26	TERPENIC COMPOUND	0.03		
132	81.48	FARNESOL ISOMER	0.03		
133	81.62	FARNESAL	0.05		
134	82.69	ALIPHATIC ESTER	0.02		
135	83.61	TRICOSANE	0.49		
136	83.82	FARNESOL ISOMER	0.22		
137	84.96	TERPENIC COMPOUND	0.02		
138	85.31	9-TRICOSENE	0.21		
139	85.70	E,E-FARNESOL	2.24		2.24
140	85.95	ALIPHATIC COMPOUND	0.09		
141	87.06	PHENYLETHYLIC ESTER	0.01		
142	87.50	TERPENIC ESTER	0.07		
143	88.12	TETRACOSANE	0.03		
144	89.83	TERPENIC COMPOUND	0.01		
145	90.24	TERPENIC ESTER	0.04		
146	90.57	TERPENIC COMPOUND	0.02		
147	91.50	TERPENIC COMPOUND	0.03		
148	91.81	TERPENIC ESTER	0.05		
149	92.53	PENTACOSANE	0.15		
150	93.53	ETHYL LINOLEATE	0.03		
151	94.23	PENTACOSENE ISOMER	0.03		
152	94.58	ALIPHATIC ESTER	0.01		
153	94.90	PENTACOSENE ISOMER	0.04		
154	95.83	TERPENIC COMPOUND	0.02		
155	96.32	CITRONELIC ESTER	0.10		
156	96.48	TERPENIC ESTER	0.02		
157	97.77	BENZYL BENZOATE	0.07		0.07
158	98.89	TERPENIC COMPOUND	0.01		
159	100.36	TERPENIC ESTER	0.04		
160	100.86	HEPTACOSANE	0.13		
161	101.32	PHENYLETHYLIC ESTER	0.07		
162	101.56	AROMATIC COMPOUND	0.02		
163	102.35	AROMATIC ESTER	0.04		
164	102.55	HEPTACOSENE ISOMER	0.02		
165	103.54	ALIPHATIC COMPOUND	0.02		
166	104.25	HEPTACOSENE ISOMER	0.05		
167	104.57	AROMATIC COMPOUND	0.02		
168	105.27	PHENYLETHYLIC ESTER	0.04		
169	107.09	TERPENIC COMPOUND	0.02		
170	108.92	NONACOSANE	0.04		
171	113.30	ALIPHATIC COMPOUND	0.02		
172	113.61	CITRONELIC ESTER	0.01		

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Peaks	RT (min)	Compound name	%	Standard (%)	Allergens (%)
173	119.23	TERPENIC COMPOUND	0.01		
		TOTAL	99.91		56.60

This Essential Oil is a 100% pure and natural product. It does not contain any artificial ingredients or adulteration of any kind to the best of our knowledge. The analysis and statements herein constitute the most complete information available to Eden Botanicals. This product is guaranteed by Eden Botanicals to be of excellent quality.

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