



Essential Oil University

GC/MS Report

Item	Lot
Neroli (Orange Blossom) EO <i>Citrus aurantium</i>	5C
Date	Analyst
11/20/2025	Dr. Robert S. Pappas

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The analysis of this batch sample, Neroli (Orange Blossom) EO, meets the expected chemical profile for authentic essential oil of *Citrus aurantium*. No contamination or adulteration was detected. The results provided in this GCMS quality analysis reflect the chemical composition of the oil and lot referenced above on the date of analysis.



Sample Information

Company: Revive
Sample Name: Neroli (Orange Blossom) EO
Botanical Name: Citrus aurantium
Lot Number: 5C
Production Method: Steam distilled

Sample Type: EO - Single
Country of Origin: Egypt/Tunisia
Analysis Date: 11/20/2025
Manufacture Date: March 2025

GC/MS

Inst. ID: Shimadzu GCMS-QP2010Ultra
Injection Type: Split
Split Ratio: 24.4

Column Type: ZB-5
Injection Volume: 0.1 µL
Temperature Program: 2C/min

Physical Data

ANALYSIS	METHOD	RESULTS
Optical Rotation @20°C	USP[781]	+4.64
Refractive Index @20°C	USP[831]	1.46920
Specific Gravity @20°C	USP[841]	0.87118



Ret. Time	Component	Ret. Idx.	Conc. %	
11.644	alpha-Thujene	924	0.01%	
12.046	alpha-Pinene	931	1.26%	ALLERGEN
12.933	Camphene	947	0.04%	
14.185	Sabinene	970	2.19%	
14.490	beta-Pinene	976	8.35%	ALLERGEN
14.820	Unidentified	982	0.01%	
15.105	Myrcene	987	1.09%	PROP. 65
16.006	Pseudolimonene	1003	0.1%	
16.149	alpha-Phellandrene	1005	0.01%	
16.294	delta-3-Carene	1008	0.01%	
16.806	alpha-Terpinene	1016	0.02%	ALLERGEN
17.285	para-Cymene	1023	0.04%	
17.599	Limonene	1028	13.71%	ALLERGEN IFRA
17.689	beta-Phellandrene	1029	0.06%	
17.762	1,8-Cineole	1030	0.15%	
17.979	cis-beta-Ocimene	1034	1.39%	
18.656	trans-beta-Ocimene	1044	3.89%	
19.429	gamma-Terpinene	1056	0.05%	
20.224	cis-Linalool oxide (furanoid)	1068	0.19%	
21.215	Terpinolene	1084	0.35%	ALLERGEN
21.278	trans-Linalool oxide (furanoid)	1085	0.17%	
22.281	Linalool	1100	43.71%	ALLERGEN IFRA
22.390	Hotrienol	1102	0.02%	
22.976	Phenylethyl alcohol	1110	0.07%	
23.671	trans-para-Mentha-2,8-dienol	1120	0.01%	
24.099	allo-Ocimene	1126	0.16%	
24.725	Benzeneacetonitrile	1136	0.04%	IFRA
24.921	neo-allo-Ocimene	1138	0.02%	
25.386	Camphor	1145	0.08%	ALLERGEN
26.984	delta-Terpineol	1168	0.01%	ALLERGEN
27.088	Borneol	1170	0.04%	
27.258	cis-Linalool oxide (pyranoid)	1172	0.01%	
27.694	Terpinen-4-ol	1179	0.1%	
28.209	Unidentified	1186	0.05%	
28.716	alpha-Terpineol	1194	5.13%	ALLERGEN
30.676	Nerol	1222	0.85%	
30.842	Citronellol	1225	0.01%	ALLERGEN IFRA
31.637	Neral	1237	0.01%	ALLERGEN IFRA
32.436	Linalyl acetate	1248	4.62%	ALLERGEN
32.445	Geraniol	1248	3.04%	ALLERGEN IFRA

Ret. Time	Component	Ret. Idx.	Conc. %	
32.698	2-Phenethyl acetate	1252	0.13%	
35.154	Indole	1288	0.24%	
38.126	delta-Elemene	1333	0.01%	
38.399	Methyl anthranilate	1337	0.42%	
38.866	alpha-Terpinyl acetate	1344	0.03%	
39.657	Neryl acetate	1357	1.62%	
40.940	Geranyl acetate	1376	3.39%	ALLERGEN
42.695	Dimethylantranilate	1403	0.06%	IFRA
43.551	beta-Caryophyllene	1417	0.59%	ALLERGEN
45.793	alpha-Humulene	1453	0.04%	
47.384	Germacrene D	1478	0.02%	
48.270	Bicyclogermacrene	1492	0.06%	
49.654	delta-Cadinene	1515	0.01%	
51.427	alpha-Elemol	1545	0.01%	
52.199	trans-Nerolidol	1558	1.49%	
53.403	Caryophyllene oxide	1579	0.04%	
54.139	Viridiflorol	1591	0.01%	
60.923	(2E,6E)-Farnesol	1712	0.73%	ALLERGEN IFRA
69.977	Unidentified	1886	0.04%	
74.571	Unidentified	1980	0.01%	

Total Identified Compounds **99.91 %**



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12,038,003

