



# Essential Oil University

## GC/MS Report

Item	Lot
Rosemary EO, Morocco, Pure & Natural <i>Rosmarinus officinalis</i>	0A
Date	Analyst
11/20/2025	Dr. Robert S. Pappas

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**The analysis of this batch sample, Rosemary EO, Morocco, Pure & Natural, meets the expected chemical profile for authentic essential oil of *Rosmarinus officinalis*. 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:** Rosemary EO, Morocco, Pure & Natural  
**Botanical Name:** Rosmarinus officinalis  
**Lot Number:** 0A  
**Production Method:** Steam distilled

**Sample Type:** EO - Single  
**Country of Origin:** Morocco  
**Analysis Date:** 11/20/2025  
**Manufacture Date:** June 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]	+3.44
Refractive Index @20°C	USP[831]	1.46624
Specific Gravity @20°C	USP[841]	0.91152



Ret. Time	Component	Ret. Idx.	Conc. %	
12.026	Hashishene	914	0.01%	
12.148	Tricyclene	916	0.15%	
12.297	alpha-Thujene	919	0.11%	
12.735	alpha-Pinene	926	12.03%	ALLERGEN
13.047	beta-Fenchene	932	0.01%	
13.539	alpha-Fenchene	941	0.32%	
13.641	Camphene	942	3.4%	
13.836	Thuja-2,4(10)-diene	946	0.01%	
14.922	Sabinene	965	0.04%	
15.242	beta-Pinene	970	6.8%	ALLERGEN
15.613	3-Octanone	977	0.02%	
15.857	Myrcene	981	1.38%	PROP. 65
16.787	Pseudolimonene	998	0.06%	
16.935	alpha-Phellandrene	1000	0.24%	
17.084	delta-3-Carene	1002	0.09%	
17.604	alpha-Terpinene	1010	0.65%	ALLERGEN
18.092	para-Cymene	1018	1.45%	
18.419	Limonene	1022	3.59%	ALLERGEN IFRA
18.673	1,8-Cineole	1026	45.43%	
18.783	cis-beta-Ocimene	1028	0.04%	
19.477	trans-beta-Ocimene	1038	0.02%	
20.281	gamma-Terpinene	1050	0.73%	
21.080	trans-Sabinene hydrate	1062	0.02%	
22.099	Terpinolene	1078	0.21%	ALLERGEN
22.411	para-Cymenene	1082	0.02%	
23.045	Linalool	1092	0.67%	ALLERGEN IFRA
24.406	endo-Fenchol	1112	0.03%	
24.917	alpha-Campholenal	1119	0.01%	
25.906	trans-Pinocarveol	1133	0.02%	
26.381	Camphor	1140	11.85%	ALLERGEN
26.899	Unidentified	1147	0.02%	
27.470	Isoborneol	1156	0.03%	
27.943	delta-Terpineol	1162	0.15%	ALLERGEN
28.067	Borneol	1164	2.53%	
28.660	Terpinen-4-ol	1173	0.58%	
29.073	para-Cymen-8-ol	1179	0.02%	
29.666	alpha-Terpineol	1187	1.9%	ALLERGEN
30.466	Verbenone	1199	0.3%	
35.772	Bornyl acetate	1276	0.81%	
35.934	Isobornyl acetate	1278	0.01%	



Ret. Time	Component	Ret. Idx.	Conc. %	
39.973	alpha-Cubebene	1338	0.02%	
40.182	Eugenol	1341	0.01%	ALLERGEN IFRA
41.440	alpha-Ylangene	1360	0.03%	
41.859	alpha-Copaene	1367	0.12%	
43.359	Methyleugenol	1389	0.02%	PROP. 65 IFRA
43.722	cis-beta-Caryophyllene	1395	0.01%	ALLERGEN
44.684	beta-Caryophyllene	1410	3.31%	ALLERGEN
45.196	Unidentified	1418	0.01%	
45.323	Unidentified	1420	0.01%	
45.855	beta-Copaene	1429	0.02%	
46.541	Humulen-(v1)	1440	0.01%	
46.929	alpha-Humulene	1446	0.34%	
47.955	cis-Murrola-4(14),5-diene	1462	0.01%	
48.131	trans-Cadina-1(6),4-diene	1465	0.06%	
49.207	trans-Muurolo-4(14),5-diene	1482	0.01%	
49.441	Unidentified	1486	0.01%	
49.594	alpha-Muuroloene	1488	0.01%	
50.166	beta-Bisabolene	1497	0.02%	
50.475	gamma-Cadinene	1502	0.04%	
50.778	delta-Cadinene	1507	0.08%	
50.964	cis-Calamenene	1510	0.01%	
54.562	Caryophyllene oxide	1571	0.04%	
55.285	Unidentified	1583	0.01%	
60.956	Geranyl tiglate	1682	0.03%	

Total Identified Compounds **99.94 %**



TIC  
23,389,878

