



Essential Oil University

GC/MS Report

Item	Lot
Rosemary EO, Morocco, Pure & Natural <i>Rosmarinus officinalis</i>	4A
Date	Analyst
12/19/2025	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 Type: EO - Single

Sample Name: Rosemary EO, Morocco, Pure & Natural

Country of Origin: Morocco

Analysis Date: 12/19/2025

Botanical Name: Rosmarinus officinalis

Manufacture Date: December 2025

Lot Number: 4A

Production Method: Steam distilled

GC/MS

Inst. ID: Shimadzu GCMS-QP2010Ultra

Column Type: ZB-5

Injection Type: Split

Injection Volume: 0.1 µL

Split Ratio: 24.4

Temperature Program: 2C/min

Physical Data

ANALYSIS

Optical Rotation @20°C

METHOD

USP[781]

RESULTS

+4.56

Refractive Index @20°C

USP[831]

1.46608

Specific Gravity @20°C

USP[841]

0.91216



Ret. Time	Component	Ret. Idx.	Conc. %	
11.126	Bornylene	897	0%	
11.924	Hashishene	912	0.01%	
12.044	Tricyclene	914	0.09%	
12.195	alpha-Thujene	917	0.12%	
12.625	alpha-Pinene	924	11.92%	ALLERGEN
13.425	alpha-Fenchene	939	0.32%	
13.526	Camphene	940	3.45%	
13.721	Thuja-2,4(10)diene	944	0.01%	
14.803	Sabinene	963	0.03%	
15.116	beta-Pinene	968	5.67%	ALLERGEN
15.503	3-Octanone	975	0.03%	
15.625	3-para-Menthene	977	0%	
15.736	Myrcene	979	1.39%	PROP. 65
16.666	Pseudolimonene	995	0.05%	
16.813	alpha-Phellandrene	998	0.22%	
16.961	delta-3-Carene	1001	0.18%	
17.480	alpha-Terpinene	1008	0.64%	ALLERGEN
17.969	para-Cymene	1016	1.21%	
18.293	Limonene	1021	3.41%	ALLERGEN IFRA
18.540	1,8-Cineole	1024	47.7%	
18.664	cis-beta-Ocimene	1026	0.07%	
19.355	trans-beta-Ocimene	1037	0.03%	
20.152	gamma-Terpinene	1048	0.7%	
20.947	trans-Sabinene hydrate	1060	0.02%	
21.967	Terpinolene	1076	0.19%	ALLERGEN
22.195	Fenchone	1079	0.01%	
22.282	para-Cymenene	1080	0.02%	
22.915	Linalool	1090	0.58%	ALLERGEN IFRA
23.936	Unidentified	1105	0.01%	
24.264	endo-Fenchol	1110	0.03%	
24.608	exo-Fenchol	1115	0.01%	
24.789	alpha-Campholenal	1117	0.01%	
25.764	trans-Pinocarveol	1131	0.02%	
25.915	cis-para-Menth-2-en-1-ol	1133	0%	
26.234	Camphor	1138	11.79%	ALLERGEN
26.754	trans-beta-Terpineol	1145	0.02%	ALLERGEN
27.320	Isoborneol	1154	0.05%	
27.801	delta-Terpineol	1160	0.16%	ALLERGEN
27.918	Borneol	1162	2.32%	
28.194	trans-Pinocamphone	1166	0.01%	



Ret. Time	Component	Ret. Idx.	Conc. %	
28.376	Unidentified	1169	0.01%	
28.516	Terpinen-4-ol	1171	0.56%	
28.941	para-Cymen-8-ol	1177	0.02%	
29.272	Unidentified	1181	0%	
29.522	alpha-Terpineol	1185	1.94%	ALLERGEN
29.719	trans-Anethole	1188	0.01%	ALLERGEN
30.327	Verbenone	1197	0.11%	
31.672	Citronellyl acetate	1216	0%	
31.822	Bornyl formate	1218	0.01%	
35.369	Unidentified	1270	0%	
35.620	Bornyl acetate	1273	0.85%	
35.773	Isobornyl acetate	1276	0.01%	
39.817	alpha-Cubebene	1336	0.01%	
40.039	Eugenol	1339	0.01%	ALLERGEN IFRA
41.278	alpha-Ylangene	1358	0.03%	
41.698	alpha-Copaene	1364	0.1%	
43.212	Methyleugenol	1387	0.01%	PROP. 65 IFRA
43.557	cis-beta-Caryophyllene	1392	0.01%	ALLERGEN
44.519	trans-beta-Caryophyllene	1407	3.1%	ALLERGEN
45.033	Unidentified	1416	0.01%	
45.157	beta-Copaene	1418	0.01%	
45.688	Aromadendrene	1426	0.02%	
46.380	Humulen-(v1)	1437	0.01%	
46.585	cis-beta-Farnesene	1440	0%	
46.762	alpha-Humulene	1443	0.38%	
47.792	cis-Cadina-1(6),4-diene	1459	0.01%	
47.968	gamma-Muurolene	1462	0.06%	
48.235	alpha-Amorphene	1467	0%	
48.854	beta-Selinene	1476	0.01%	
49.289	alpha-Selinene	1483	0.01%	
49.435	alpha-Muurolene	1486	0.02%	
50.003	beta-Bisabolene	1495	0.02%	
50.314	gamma-Cadinene	1500	0.04%	
50.619	delta-Cadinene	1505	0.08%	
50.800	cis-Calamenene	1508	0.01%	
51.488	trans-Cadine-1,4-diene	1519	0%	
54.400	Caryophyllene oxide	1568	0.03%	
64.250	Unidentified	1742	0.01%	
73.876	para-Camphorene	1929	0%	

Total Identified Compounds **99.98 %**



TIC
81,406,999

