



# Essential Oil University

## GC/MS Report

Item	Lot
<b>Nutmeg EO</b> <i>Myristica fragrans</i>	<b>5E</b>
Date	Analyst
<b>12/11/2025</b>	<b>Dr. Robert S. Pappas</b>

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**The analysis of this batch sample, Nutmeg EO, meets the expected chemical profile for authentic essential oil of *Myristica fragrans*. 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:** Nutmeg EO  
**Botanical Name:** Myristica fragrans  
**Lot Number:** 5E  
**Production Method:** Steam distilled

**Sample Type:** EO - Single  
**Country of Origin:** Malaysia  
**Analysis Date:** 12/11/2025  
**Manufacture Date:** November 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

Optical Rotation @20°C  
Refractive Index @20°C  
Specific Gravity @20°C

#### METHOD

USP[781]  
USP[831]  
USP[841]

#### RESULTS

+4.40  
1.47720  
0.88321



Ret. Time	Component	Ret. Idx.	Conc. %	
12.127	Hashishene	918	0.02%	
12.252	Tricyclene	920	0.01%	
12.399	alpha-Thujene	923	1.03%	
12.848	alpha-Pinene	931	24.18%	ALLERGEN
13.652	alpha-Fenchene	945	0.05%	
13.751	Camphene	947	0.23%	
13.951	Thuja-2,4(10)diene	950	0%	
15.063	Sabinene	970	17.8%	
15.185	Unidentified	972	0.01%	
15.382	beta-Pinene	976	18.78%	ALLERGEN
15.665	Camphene isomer	981	0.01%	
15.853	3-para-Menthene	984	0.01%	
15.974	Myrcene	986	3.1%	PROP. 65
16.689	Unidentified	999	0.01%	
16.916	Pseudolimonene	1002	0.13%	
17.067	alpha-Phellandrene	1005	0.39%	
17.212	delta-3-Carene	1007	0.69%	
17.591	1,4-Cineole	1013	0.16%	
17.724	alpha-Terpinene	1015	1.41%	ALLERGEN
17.900	ortho-Cymene	1017	0.01%	
18.214	para-Cymene	1022	2.84%	
18.524	Limonene	1027	5.35%	ALLERGEN IFRA
18.632	beta-Phellandrene	1028	1.02%	
18.721	1,8-Cineole	1030	1.99%	
18.904	cis-beta-Ocimene	1032	0.01%	
19.604	trans-beta-Ocimene	1043	0.02%	
20.420	gamma-Terpinene	1055	1.9%	
21.222	trans-Sabinene hydrate	1067	0.1%	
22.250	Terpinolene	1083	0.89%	ALLERGEN
22.574	para-Cymenene	1088	0.03%	
23.020	Unidentified	1094	0.03%	
23.202	Linalool	1097	0.14%	ALLERGEN IFRA
23.315	cis-Sabinene hydrate	1099	0.07%	
24.581	endo-Fenchol	1117	0.03%	
24.936	cis-para-Menth-2-en-1-ol	1122	0.06%	
25.718	Terpin-3-en-1-ol	1133	0.02%	
26.075	trans-Pinocarveol	1138	0.01%	
26.176	trans-para-Menth-2-en-1-ol	1140	0.05%	
26.676	trans-Dihydro-alpha-Terpineol	1147	0.04%	
27.580	Pinocarvone	1160	0.01%	



Ret. Time	Component	Ret. Idx.	Conc. %	
27.655	Isoborneol	1161	0.01%	
28.245	Borneol	1170	0.04%	
28.850	Terpinen-4-ol	1178	5.47%	
29.258	para-Cymen-8-ol	1184	0.02%	
29.840	alpha-Terpineol	1192	0.58%	ALLERGEN
29.930	Unidentified	1194	0.02%	
30.175	gamma-Terpineol	1197	0.02%	ALLERGEN
30.796	trans-Piperitol	1206	0.02%	
33.918	Unidentified	1252	0.01%	
35.942	Bornyl acetate	1281	0.06%	
36.068	trans-Anethole	1283	0.02%	ALLERGEN
36.292	Safrole	1287	0.85%	PROP. 65
36.450	Unidentified	1289	0.01%	
36.730	Terpin-1-en-4-yl acetate	1293	0.02%	
36.826	Carvacrol	1294	0.07%	
37.266	Cinnamaldehyde analogue	1301	0.15%	
37.395	Unidentified	1303	0.03%	
37.621	Unidentified	1306	0.01%	
38.293	Unidentified	1316	0.01%	
38.915	Unidentified	1326	0.01%	
40.073	alpha-Terpinyl acetate	1343	0.1%	
40.257	Citronellyl acetate	1346	0.04%	IFRA
40.359	Eugenol	1348	0.11%	ALLERGEN IFRA
42.008	alpha-Copaene	1373	0.17%	
42.125	Geranyl acetate	1375	0.11%	ALLERGEN
43.529	Methyleugenol	1396	0.11%	PROP. 65 IFRA
44.833	beta-Caryophyllene	1416	3.49%	ALLERGEN
45.662	trans-alpha-Bergamotene	1430	0.04%	
46.467	trans-Isoeugenol	1443	0.23%	ALLERGEN IFRA
48.264	Unidentified	1471	0.01%	
48.662	Germacrene D	1478	0.01%	
49.497	trans-Methyl isoeugenol	1491	0.02%	
50.302	beta-Bisabolene	1504	0.02%	
51.025	Myristicin	1516	5.19%	
52.581	Elemicin	1542	0.16%	
55.370	Methoxyeugenol	1589	0.08%	
74.159	meta-Camphorene	1941	0.03%	
75.884	para-Camphorene	1977	0.01%	

Total Identified Compounds **99.84 %**



TIC  
13,138,677

