



GC/MS Report

GC3

Item	Lot 13522
98401-74	
<i>Nicotiana tabacum</i>	
Tobacco Absolute	
Date	Analyst
11/7/2025	J. S

Sample Information

Sample Name: Tobacco Absolute

Botanical Name: Nicotiana tabacum

Lot Number: 13522

Production Method: Solvent extraction

Sample Type: EO - Other

Country of Origin: Bulgaria

Analysis Date: 11/7/2025

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

Not Measurable

Not Measurable

Not Measurable

Ret. Time	Component	Ret. Idx.	Conc. %	
3.050	Ethanol	503	0.22%	
3.652	Hexane	572	0.05%	PROP. 65
3.939	Methyl cyclopentane	604	0.13%	
4.332	Cyclohexane	649	0.17%	
5.385	2-Methyl-2-pentanol	726	0.07%	
5.862	3-Methyl-3-pentanol	747	0.09%	
6.886	1-Methyl-1-cyclopentanol	791	0.34%	
6.939	3-Hexanol	794	0.13%	
7.055	2-Hexanol	799	0.13%	
8.607	3-Methyl cyclopentanol	838	0.14%	
10.485	Cyclohexanol	885	0.08%	
12.856	Unidentified	931	0.12%	
12.957	3-Methylpentanoic acid	933	0.21%	
13.157	Unidentified	936	0.09%	
18.535	Limonene	1027	0.07%	ALLERGEN IFRA
23.224	Linalool	1097	0.25%	ALLERGEN IFRA
24.031	Phenethyl alcohol	1109	1.31%	
33.581	Linalyl acetate	1247	0.18%	ALLERGEN
40.024	Nicotine	1343	0.09%	PROP. 65
40.392	Eugenol	1348	0.06%	ALLERGEN IFRA
40.879	gamma-Terpinyl acetate	1356	0.36%	
44.785	Unidentified	1416	0.31%	
46.577	Geranyl acetone	1444	0.1%	
48.401	Norsolanadione isomer	1473	0.37%	
51.417	Dihydroactinidiolide isomer	1523	0.17%	
54.376	Unidentified	1572	0.1%	
57.951	Ionol analogue	1634	0.38%	
64.612	Tetradecanoic acid	1755	0.36%	
65.020	Benzyl benzoate	1763	0.09%	ALLERGEN IFRA
66.472	Ethyl tetradecanoate	1790	0.08%	
68.694	Neophytadiene	1833	5.17%	
68.932	Phytone	1837	0.37%	
71.976	Nonadecane	1897	0.25%	
72.361	Farnesyl acetone	1905	0.31%	
74.860	Hexadecanoic acid	1956	1.76%	
75.114	3-(4,8,12-Trimethyltridecyl) furan isomer	1961	0.38%	
76.483	Ethyl palmitate	1989	0.24%	
77.147	Unidentified	2003	0.1%	
78.743	Unidentified isomer I	2037	0.45%	
79.430	Unidentified isomer I	2052	3.07%	

Ret. Time	Component	Ret. Idx.	Conc. %	
79.600	Unidentified	2055	0.25%	
79.964	Sclareolide	2063	2.45%	
80.068	Unidentified	2065	0.55%	
80.540	Unidentified	2076	0.37%	
80.954	Unidentified	2084	0.15%	
81.368	Unidentified	2093	3%	
81.525	Heneicosane	2097	0.08%	
81.732	Unidentified	2101	2.38%	
82.596	Unidentified	2121	0.34%	
82.737	Unidentified	2124	0.64%	
83.090	Oleic acid	2132	1.38%	
83.124	Unidentified	2132	1.59%	
83.255	Unidentified	2135	0.34%	
84.126	Octadecanoic acid (Stearic acid)	2155	0.17%	
84.418	Unidentified	2161	0.21%	
84.673	Unidentified	2167	0.56%	
84.785	Unidentified	2170	0.27%	
84.960	Unidentified isomer I	2174	2.26%	
85.386	Unidentified isomer I	2183	2.66%	
85.563	Unidentified isomer I	2187	0.88%	
85.795	Unidentified	2192	0.53%	
86.081	Unidentified	2199	1.07%	
86.469	Unidentified	2208	0.1%	
86.898	4,8,13-Cyclotetradecatriene-1,3-diol, 1,5,9-trimethyl-12-(1-methylethyl)-	2218	12.86%	
87.123	Unidentified isomer II	2223	0.69%	
87.295	Unidentified	2227	0.28%	
87.557	Unidentified	2233	0.21%	
87.709	Unidentified isomer II	2237	0.29%	
88.026	Unidentified	2244	0.34%	
88.236	Unidentified	2249	0.18%	
88.471	Unidentified	2255	0.33%	
89.300	Unidentified	2274	0.28%	
89.439	Unidentified	2277	0.09%	
89.780	Unidentified	2285	0.32%	
89.883	Unidentified	2288	0.12%	
90.046	Unidentified	2291	0.33%	
90.270	Unidentified	2297	0.33%	
91.996	Unidentified	2339	0.16%	
92.340	Unidentified	2347	0.25%	
92.457	Unidentified isomer I	2350	0.42%	

Ret. Time	Component	Ret. Idx.	Conc. %	
92.801	Unidentified isomer I	2358	1.49%	
93.058	Unidentified	2365	0.25%	
93.203	Unidentified	2368	0.68%	
93.425	Unidentified	2374	0.22%	
93.544	Unidentified	2376	0.39%	
93.760	Unidentified	2382	0.51%	
93.917	Unidentified	2386	0.43%	
94.136	Unidentified	2391	0.19%	
94.222	Unidentified	2393	0.27%	
94.619	Unidentified	2403	0.16%	
95.012	Unidentified	2413	0.14%	
95.275	Unidentified	2419	0.64%	
95.465	Unidentified	2424	0.14%	
95.634	Unidentified	2429	1.02%	
95.802	Unidentified	2433	0.14%	
96.017	Unidentified	2438	0.14%	
96.275	Unidentified	2445	0.24%	
97.909	Unidentified	2486	0.54%	
98.312	Unidentified	2496	0.92%	
98.511	Unidentified	2501	0.26%	
99.021	Unidentified	2515	0.18%	
99.265	Bis(2-ethylhexyl) phthalate	2521	0.11%	
100.661	Unidentified	2558	0.52%	
103.182	Unidentified isomer III	2625	0.18%	
103.521	Unidentified isomer III	2635	0.16%	
105.755	Behenyl alcohol analogue	2696	0.12%	
109.553	Squalene	2803	0.23%	
110.279	Unidentified	2825	0.46%	
110.505	Unidentified isomer III	2831	0.24%	
111.164	Unidentified isomer III	2851	0.37%	
119.152	Cholesterol isomer	3094	1.68%	
119.687	Vitamin E	3112	5.73%	
120.571	Unidentified	3140	0.35%	
122.249	Unidentified	3194	0.31%	
122.511	Unidentified	3203	2.95%	
122.860	Unidentified	3214	0.15%	
123.319	Stigmasterol isomer	3229	6.52%	
124.536	Unidentified	3268	0.19%	
124.645	Unidentified	3271	0.11%	
124.997	Unidentified	3283	0.93%	

Ret. Time	Component	Ret. Idx.	Conc. %	
125.172	Stigmasterol isomer	3288	3.38%	
125.656	Fucosterol	3304	1.25%	
125.929	Unidentified	3313	0.22%	
126.379	beta-Amyrin acetate	3327	2.3%	
127.006	Unidentified	3348	0.13%	
127.215	Unidentified	3354	0.15%	
127.515	Unidentified	3364	0.17%	
127.721	Unidentified	3371	1.15%	
129.407	Vitamin E isomer	3425	0.6%	
129.709	Unidentified	3435	1.04%	
129.815	Unidentified	3438	0.21%	
142.725	Unidentified	3855	0.23%	
145.048	Solanesol isomer	3930	0.86%	

Total Identified Compounds **53.83 %**

TIC
2,441,298

