



Essential Oil University

GC/MS Report

Item	Lot
Sweet Birch EO, Adirondack <i>Betula lenta</i>	7C
Date	Analyst
7/11/2025	Dr. Robert S. Pappas

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The analysis of this batch sample, Sweet Birch EO, Adirondack, meets the expected chemical profile for authentic essential oil of *Betula lenta*. 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:** Sweet Birch EO, Adirondack**Botanical Name:** Betula lenta**Lot Number:** 7C**Production Method:** Steam distilled**Sample Type:** EO - Single**Country of Origin:** USA**Analysis Date:** 7/11/2025**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

Optical Rotation @20°C

Refractive Index @20°C

Specific Gravity @20°C

METHOD

USP[781]

USP[831]

USP[841]

RESULTS

-.04

1.53621

1.18422



Ret. Time	Component	Ret. Idx.	Conc. %	
8.424	Hex-(3Z)-enol	848	0.04%	
8.938	Hexanol	862	0.02%	
14.309	Unidentified	973	0.01%	
17.531	Limonene	1027	0.01%	IFRA
17.708	1,8-Cineole	1029	0.01%	
20.180	1-Octanol	1068	0.04%	
21.094	4-Methoxyphenol	1082	0.04%	IFRA
22.120	Linalool	1097	0.1%	IFRA
27.654	Terpinen-4-ol	1178	0.03%	
28.704	Methyl salicylate	1193	99.01%	
28.906	Estragole	1196	0.14%	IFRA
33.597	Ethyl salicylate	1265	0.5%	
37.007	Decadienal	1316	0.02%	
66.410	Unidentified	1815	0.02%	

Total Identified Compounds **99.96 %**

