



Essential Oil University

GC/MS Report

Item	Lot
Sweet Birch EO, Adirondack <i>Betula lenta</i>	8M
Date	Analyst
12/20/2023	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:** 8M**Production Method:** Steam distilled**Sample Type:** EO - Single**Country of Origin:** USA**Analysis Date:** 12/20/2023**Date of Distillation:** September 2023

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

1.53634

1.18433



Ret. Time	Component	Ret. Idx.	Conc. %	
8.738	Hex-(3Z)-enol	843	0.04%	
9.271	Hexanol	857	0.02%	
14.741	Unidentified	966	0%	
18.056	Limonene	1021	0.01%	IFRA
18.231	1,8-Cineole	1024	0.01%	
20.727	1-Octanol	1062	0.03%	
21.645	Guaiacol	1076	0.03%	
22.692	Linalool	1091	0.09%	IFRA
28.272	Terpinen-4-ol	1172	0.03%	
29.343	Methyl salicylate	1187	98.96%	
29.525	Estragole	1190	0.11%	IFRA
34.229	Ethyl salicylate	1258	0.67%	

Total Identified Compounds **100 %**

