



# Essential Oil University

## GC/MS Report

Item	Lot
Sweet Birch EO, Adirondack, P&N <i>Betula lenta</i>	1A
Date	Analyst
11/13/2025	Dr. Robert S. Pappas

© Copyright 2025 by Essential Oil University. All rights reserved. Any publishing, copying, use, dissemination, or distribution of this report, including online, without the express written permission of Essential Oil University is strictly prohibited.

**The analysis of this batch sample, Sweet Birch EO, Adirondack, P&N, 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, P&N**Botanical Name:** Betula lenta**Lot Number:** 1A**Production Method:** Steam distilled**Sample Type:** EO - Single**Country of Origin:** USA**Analysis Date:** 11/13/2025**Manufacture Date:** July 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

1.53637

1.18460



Ret. Time	Component	Ret. Idx.	Conc. %	
15.204	beta-Pinene	970	0.01%	ALLERGEN
18.358	Limonene	1022	0.01%	ALLERGEN IFRA
18.563	1,8-Cineole	1025	0.01%	
21.053	Octanol	1062	0.03%	
21.955	4-Methoxyphenol	1076	0.04%	
23.018	Linalool	1092	0.1%	ALLERGEN IFRA
28.639	Terpinen-4-ol	1172	0.04%	
29.663	Methyl salicylate	1187	98.63%	ALLERGEN
29.872	Estragole	1190	0.15%	PROP. 65 IFRA
34.597	Ethyl salicylate	1259	0.86%	
38.017	Decadienal	1309	0.02%	
38.963	ortho-Methyl anisate	1323	0.1%	

Total Identified Compounds **100 %**



TIC  
20,586,247

