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# Certificate of Analysis

**Client Name:** Treetop Alchemy  
**License Number:** MANU0096

**Sample ID:** VT23494  
**Sample Name:** Permanent Marker  
**Sample Lot:** ML-MANU0096-DC-PM  
**Sample Matrix:** Solvent Extraction Concentrates  
**Date Received:** 8/15/2025  
**Date Reported:** 8/21/2025  
**Date Tested:** 8/19/2025



## Total Terpenes (%) : 2.4888

Dominant Terpenes (%)	
Myrcene	0.4557
alpha-Pinene	0.4042
Limonene	0.3528
beta-caryophyllene	0.336
Ocimene	0.1865

## Terpenes

Standard terpene analysis utilizing Gas Chromatography – Mass Spectrometry (GC-MS; SOP-069-OA) | Test ID: #76951

Analyte	Result (%)	Result (mg/g)	LOD (mg/g)	LOQ (mg/g)
3-Carene	ND	ND	0.000002	0.001
alpha-Bisabolol	0.0601	0.601	0.000003	0.001
alpha-Humulene	0.1453	1.453	0.000002	0.001
alpha-Pinene	0.4042	4.042	0.000001	0.001
alpha-Terpinene	0.0168	0.168	0.000001	0.001
alpha-Terpinolene	0.1008	1.008	0.000004	0.001
beta-caryophyllene	0.336	3.36	0.000004	0.001
beta-Pinene	0.147	1.47	0.000002	0.001
Camphene	0.0183	0.183	0.000001	0.001
Caryophyllene Oxide	0.0401	0.401	0.000011	0.001
Eucalyptol	0.0235	0.235	0.000002	0.001
gamma-Terpinene	ND	ND	0.000002	0.001
Geraniol	ND	ND	0.000008	0.003
Guaiol	0.0245	0.245	0.000007	0.001
Isopulegol	ND	ND	0.000005	0.001
Isopropyl Toluene	ND	ND	0.000003	0.001
Limonene	0.3528	3.528	0.000002	0.001
Linalool	0.114	1.14	0.000003	0.001
Nerolidol	0.0632	0.632	0.000007	0.001
Myrcene	0.4557	4.557	0.000003	0.001
Ocimene	0.1865	1.865	0.000002	0.001
<b>Total Terpenes</b>	<b>2.4888</b>	<b>24.888</b>		



*Callie Chapman*  
 Callie Chapman  
 Lab Director  
 8/21/2025

Rev. 1 Initial Release

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