



Certificate of Analysis

R&D

Client Information:

3 TALL PINES LLC
W6326 COUNTY ROAD Z
PLYMOUTH
PLYMOUTH, WI 53073

Batch # D9o-FL-021522-02
Batch Date: 2023-02-15
Extracted From: Hemp

Test Reg State: Florida

Order # 3TA230302-130001
Order Date: 2023-03-02
Sample # AAEE040

Sampling Date: 2023-03-08
Lab Batch Date: 2023-03-08
Completion Date: 2023-03-13

Initial Gross Weight: 22.547 g



Product Image



Potency Tested



HHCP Tested

Potency 23 (LCUV) ***
Specimen Weight: 203.100 mg

Tested

SOP13.002 (LCUV)

Analyte	Dilution (1:n)	LOD (%)	LOQ (%)	Result (mg/g)	(%)
CBD	150.000	5.40E-5	0.0015	15.8500	1.5850
CBGA	15.000	1.07E-4	0.0015	7.0050	7.0050
CBG	15.000	2.48E-4	0.0015	6.6740	6.6740
CBN	15.000	1.40E-5	0.0015	4.9310	4.9310
THCA-A	15.000	3.20E-5	0.0015	3.7480	3.7480
CBGA	15.000	8.00E-5	0.0015	3.1670	3.1670
CBDVA	15.000	1.40E-5	0.0015	1.9120	1.9120
CBC	150.000	1.80E-5	0.0015	1.5300	1.5300
CBNA	15.000	9.50E-5	0.0015	1.3760	1.3760
CBT	15.000	2.00E-4	0.0015	1.1260	1.1260
Delta8-THCP	15.000	3.75E-4	0.0015	0.1970	0.1970
CBDV	15.000	6.50E-5	0.0015	<LOQ	<LOQ
CBL	15.000	3.50E-5	0.0015	<LOQ	<LOQ
Delta-8 THC-O Acetate	15.000	2.70E-5	0.003	<LOQ	<LOQ
Delta-8 THCV	15.000	4.00E-5	0.0015	<LOQ	<LOQ
Delta-9 THC	150.000	1.30E-5	0.0015	<LOQ	<LOQ
Delta-9 THC-O Acetate	15.000	7.70E-5	0.003	<LOQ	<LOQ
Delta9-THCP	15.000	1.17E-5	0.0012	<LOQ	<LOQ
Exo-THC	15.000	2.30E-4	0.0015	<LOQ	<LOQ
THCV	15.000	7.00E-6	0.0015	<LOQ	<LOQ
THCVA	15.000	4.70E-5	0.0015	<LOQ	<LOQ
Total Active CBD	1500.000			<LOQ	13.845
Total Active THC	1500.000			<LOQ	0.329

Potency Summary

Total HHC 2.580% <LOQ	Total Active THC 0.329% <LOQ
Total Active CBD 13.845% <LOQ	Total CBG 0.945% <LOQ
Total CBN 0.614% <LOQ	Other Cannabinoids 7.594% <LOQ
Total Cannabinoids 25.907% <LOQ	

Summary results above show the dry weight concentration

Aixia Sun
Aixia Sun Lab Director/Principal Scientist
D.H.Sc., M.Sc., B.Sc., MT (AAB)



Definitions and Abbreviations used in this report: Total Active CBD = CBD + (CBD-A * 0.877), *Total CBDV = CBDV + (CBDVA * 0.87), Total Active THC = THCA-A * 0.877 + Delta 9 THC, Total THC = THCV + (THCVA * 0.87), CBG Total = (CBGA * 0.877) + CBG, CBN Total = (CBNA * 0.877) + CBN, Total CBC = CBC + (CBCA * 0.877), Total THC-O-Acetate = Delta 8 THC-O-Acetate + Delta 9 THC-O-Acetate, Total THCP = Delta8-THCP + Delta9-THCP, Other Cannabinoids Total = Total Cannabinoids - All the listed cannabinoids on the summary section, Total Detected Cannabinoids = Delta6a10a-THC + Delta8-THC + Total CBN + CBT + CBE + Delta8-THCV + Total CBG + Total CBD + Total THCV + CBL + Total THC + Total CBC + Total CBDV + Delta10-THC + Total THC-O-Acetate + Total THCP. (mg/ml) = Milligrams per Milliliter, LOQ = Limit of Quantitation, LOD = Limit of Detection, Dilution = Dilution Factor (ppb) = Parts per Billion, (%) = Percent, (cfu/g) = Colony Forming Unit per Gram (cfu/g) = Colony Forming Unit per Gram, LOD = Limit of Detection, (µg/g) = Microgram per Gram (ppm) = Parts per Million, (ppm) = (µg/g), (aw) = aw (area ratio) = Area Ratio, (mg/Kg) = Milligram per Kilogram, Passed - Analyte/microbe is non-detected or at the level below the action limit, Failed - Analyte/microbe is at the level that equal or above the action limit, *Measurement of Uncertainty = +/- 10%

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HHCP

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Dilution Factor: 7500.000

Analyte	LOD (%)	LOQ (%)	Result (mg/g)	(%)	Analyte	LOD (%)	LOQ (%)	Result (mg/g)	(%)
(9R)-HHC	3.1100E-7	7.5E-5	14.9000	1.49	9(S)-HHCP	2.5500E-6	7.5E-5	<LOQ	<LOQ
(9S)-HHC	8.7400E-7	7.5E-5	8.4100	0.841	Delta-9 THC	2.8000E-5	7.5E-5	<LOQ	<LOQ
(±)-9β-hydroxy-HHC	4.5800E-7	7.5E-5	2.4900	0.249	Total HHC			25.8000	2.58
9(R)-HHCP	3.0900E-6	7.5E-5	<LOQ	<LOQ					

Tested

SOP13.050 (LCMS)

Aixia Sun

Aixia Sun Lab Director/Principal Scientist
D.H.Sc., M.Sc., B.Sc., MT (AAB)



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