



Certificate of Analysis

R&D

Client Information:

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

Batch # ET-FL-022023-01
Batch Date: 2023-02-20
Extracted From: Hemp

Test Reg State: Florida

Order # 3TA230302-130001
Order Date: 2023-03-02
Sample # AAEE033

Sampling Date: 2023-03-08
Lab Batch Date: 2023-03-08
Completion Date: 2023-03-17

Initial Gross Weight: 21.858 g



Product Image



Potency
Tested



HHCP
Tested

Delta 8/Delta 10 Potency 13 - (LCUV) + Potency 23 (LCUV)

Specimen Weight: 193.800 mg

Analyte	Dilution (1:n)	LOD (%)	LOQ (%)	Result (mg/g)	(%)
CBD	1500.000	1.00E-5	0.0015	122.6200	12.2620
Delta-8 THC	1500.000	2.60E-5	0.0015	11.5800	1.1580
CBD	1500.000	5.40E-5	0.0015	10.9700	1.0970
CBGA	15.000	1.07E-4	0.0015	6.4040	0.6404
CBGA	1500.000	8.00E-5	0.0015	5.3600	0.5360
CBN	1500.000	1.40E-5	0.0015	4.6300	0.4630
CBDVA	15.000	1.40E-5	0.0015	3.9530	0.3953
THCA-A	1500.000	3.20E-5	0.0015	3.3400	0.3340
Delta-9 THC	1500.000	2.80E-5	7.5E-5	3.3000	0.3300
CBG	1500.000	2.48E-4	0.0015	2.5600	0.2560
CBC	1500.000	1.80E-5	0.0015	2.4600	0.2460
CBT	15.000	2.00E-4	0.0015	1.2090	0.1209
CBNA	15.000	9.50E-5	0.0015	0.9610	0.0961
Delta-8 THC	15.000	4.00E-5	0.0015	0.9590	0.0959
Delta-8-THCP	15.000	3.75E-4	0.0015	0.3120	0.0312
CBDV	1500.000	6.50E-5	0.0015	0.2700	0.0270
Delta-9-THCP	15.000	1.17E-5	0.0012	0.1680	0.0168
THCVA	15.000	4.70E-5	0.0015	0.1600	0.0160
Delta-10 THC	1500.000	3.00E-6	0.0015	<LOQ	<LOQ
Delta-6a10a-THC	1500.000	8.47E-5	0.0015	<LOQ	<LOQ
THCV	1500.000	7.00E-6	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-9 THC-O Acetate	15.000	7.70E-5	0.003	<LOQ	<LOQ
Exo-THC	15.000	2.30E-4	0.0015	<LOQ	<LOQ

Tested
SOP13.002 (LCUV)



Potency Summary

Total Delta 8 1.158%	Total Delta 10 None Detected
Total HHC 0.849%	Total CBG 0.726%
Total CBN 0.547%	Other Cannabinoids 1.457%
Total Cannabinoids 18.971%	

Summary Results determined from two distinct Potency Tests - Delta 8/Delta 10 Potency 13 - (LCUV) + Potency 23 (LCUV)
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, 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%

This report shall not be reproduced, without written approval, from ACS Laboratory. The results of this report relate only to the material or product analyzed. Test results are confidential unless explicitly waived otherwise. ACS Laboratory is accredited to the ISO/IEC 17025:2017 Standard. The tests and/or calibrations marked with an "****" are not ISO/IEC 17025:2017 accredited test results.



Certificate of Analysis

R&D

Client Information:

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

Batch # ET-FL-022023-01
Batch Date: 2023-02-20
Extracted From: Hemp

Test Reg State: Florida

Order # 3TA230302-130001
Order Date: 2023-03-02
Sample # AAEE033

Sampling Date: 2023-03-08
Lab Batch Date: 2023-03-08
Completion Date: 2023-03-17

Initial Gross Weight: 21.858 g

HHCP

Specimen Weight: 193.800 mg

Dilution Factor: 7500.000

Analyte	LOD (%)	LOQ (%)	Result (mg/g)	(%)	Analyte	LOD (%)	LOQ (%)	Result (mg/g)	(%)
(9R)-HHC	3.1100E-7	7.5E-5	4.7300	0.473	9(S)-HHCP	2.5500E-6	7.5E-5	<LOQ	<LOQ
(9S)-HHC	8.7400E-7	7.5E-5	2.3300	0.233	Delta-9 THC	2.8000E-5	7.5E-5	3.3000	0.33
(±)-9β-hydroxy-HHC	4.5800E-7	7.5E-5	1.4300	0.143	Total HHCP			8.4900	0.849
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)



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%

This report shall not be reproduced, without written approval, from ACS Laboratory. The results of this report relate only to the material or product analyzed. Test results are confidential unless explicitly waived otherwise. ACS Laboratory is accredited to the ISO/IEC 17025:2017 Standard. The tests and/or calibrations marked with an "****" are not ISO/IEC 17025:2017 accredited test results.