



**TWIN
PINES
HEMP
CO.**

1 serving = 1 mL

Batch FHEI5A20

Full Hemp Flower Extract

1,500mg CBD

We have created a condensed document for easier readability.
Actual lab results may be found below.

AURUM LABS
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CANNABINOIDS PER SERVING REGULATORY ACTION LVL

Cannabidiol (CBD)	55.27mg/mL	N/A
Total THC (d9-THC + Cannabigerol (CBG))	1.80mg/mL	<.3%
Cannabidiolic Acid (CBDa)	2.95mg/mL	N/A
Cannabidivarin (CBDV)	1.00mg/mL	N/A
Cannabichromene (CBC)	0.52mg/mL	N/A
	3.54mg/mL	N/A



RESIDUAL SOLVENTS STATUS

Acetone	PASS
Benzene	PASS
Butanes	PASS
Ethanol	PASS
Ethyl-Acetate	PASS
Heptanes	PASS
Hexanes	PASS
Isopropanol	PASS
Methanol	PASS
n-Pentane	PASS
Propane	PASS
Toluene	PASS
Xylenes	PASS



TERPENES PER GRAM

s-Caryophyllene	1.98mg/gm
(-)- α -Bisabolol	0.70mg/gm
β -Humulene	0.61mg/gm
s-Myrcene	0.20mg/gm
β -Limonene	0.15mg/gm
trans-Nerolidol	0.12mg/gm
Ocimene	0.09mg/gm
Linalool	0.07mg/gm
α -Pinene	0.06mg/gm



HEAVY METALS STATUS

Arsenic	PASS
Cadmium	PASS
Lead	PASS
Mercury	PASS

PESTICIDES

We tested for 13 total pesticides and none were found to be above the LoQ in sample.



Cannabinoids Potency/Homogeneity and Contaminant Analysis Report

Sample Name: FHE15A20
 Sample Type: Ingestible, Baked Goods, Other
 Sample ID: 2009AU0188.12168
 Batch ID:
 METRC Tag: 1A4000712682A2A000002287

Twin Pines
 8251 5700 Rd
 Olathe, CO 81425
 (903) 343-4349
 Lic. #403H-75142.16

Cannabinoid Content

Sample Photo

Analyte	LOQ mg/unit	Amount mg/unit	Amount %
THCa	0.32	<LOQ	<LOQ
Δ9-THC	0.32	1.80	0.190
Δ8-THC	0.15	ND	ND
CBDa	0.32	1.00	0.106
CBD	0.32	55.27	5.817
CBDVa	0.15	ND	ND
CBDV	0.15	0.52	0.055
CBN	0.15	ND	ND
CBGa	0.15	ND	ND
CBG	0.15	2.95	0.310
CBCa	0.15	ND	ND
CBC	0.15	3.54	0.372
CBL	0.15	<LOQ	<LOQ



Units per Package: 1 Unit Type: 1 mL (0.95g)

CBD Homogeneity


Notes & Interpretations


Number of Samples Tested	1
CBD Homogeneity	Not Tested

Analyzed via AAM-001 using Agilent 1220 HPLC-DAD. Sample was analyzed as received. Deviations from SOP: None

Final Approval

Test Status


 Results Approved By:
 Lucas Mason, M.S.
 Lab Director


 Results Analyzed By:
 Joshua Reilly
 Analyst

THC Content	Pass
CBD Content	Pass
CBD Homogeneity	Not Tested

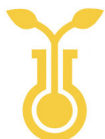
Received: 09/17/2020

Tested: 09/17/2020

Reported: 09/22/2020

Definitions: LOQ= Limit of Quantitation, ND = Not Detected

This product has been tested by Aurum Labs using validated testing methodologies (unless specified in this report) and a Quality System as required by state law. Values reported related only to the product tested. Uncertainty information available upon request. Aurum Labs makes no claims as to the efficacy, safety or other risks associated with any detected or non detected levels of any compounds reported herein. This Certificate shall not be reproduced except in full, with the written approval of Aurum Labs.



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Sample: 2009AU0188.12168

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Frying Pan Hemp 403H-63693

Submitted: 1/21/2020

Reported: 1/23/2020

Sample ID: 20R-0191-02

Matrix: HPC

Batch ID:

Metric ID: 1A400071267E6AD000005585

Contact: Bette Ortell, bette.fph@outlook.com

PO #188 Twin Pines Winterized Crude Residual Solvents Report

	Limit of Detection (ppm)	MED Limit (ppm)	Test Result (ppm)	Status
Acetone	17.3	1000	None Detected	PASS
Benzene	0.9	2	None Detected	PASS
Butanes	118	1000	None Detected	PASS
Ethanol	17.2	1000	138	PASS
Hexane	2.6	60	None Detected	PASS
Isopropyl Alcohol	17.2	1000	None Detected	PASS
Pentane	17.6	1000	None Detected	PASS
Propane	89.2	1000	None Detected	PASS
Toluene	4.7	180	None Detected	PASS
Xylenes	25.1	430	None Detected	PASS
Heptane	17.8	1000	None Detected	PASS
Overall Result				PASS

COMMENTS

Matrices	
FL = Flower	HP = Hemp
ED = Edible	TP = Topical
CN = Solventless Concentrate	RCN = Remediated or Solvent-based Concentrate
HIP = Hemp Infused Product	HPC = Hemp Concentrate

These results relate solely to the sample tested.

Testing conducted between the date that the sample was received and the date that the results were reported.

Analyzed by GC-FID at Denver Lab. Report authorized by Lab Director or designee.

ASL warrants that all work performed conforms to the industry standards in effect for cannabis when services are rendered. ASL disclaims any implied warranties, except where such a disclaimer is prohibited by law, including any warrant of merchantability or fitness for a particular purpose.

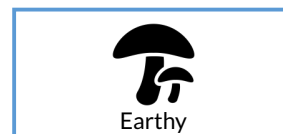
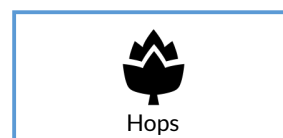
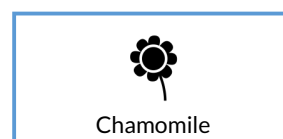
Terpene Analysis Report

Sample Name: Crude 500/1
 Sample Type: Concentrates & Extracts, Other, Other
 Sample ID: 1912AU0132.19728
 Batch ID:
 METRC Tag: 1A4000712682A2A000002062

Twin Pines
 8251 5700 Rd
 Olathe, CO 81425
 (903) 343-4349
 Lic. #403H-75142.16

Terpene Profile

Analyte	LOQ	Amount	Amount
	mg/g	mg/g	%
β-Caryophyllene	0.05	1.98	0.198
(-)-α-Bisabolol	0.05	0.70	0.070
α-Humulene	0.05	0.61	0.061
β-Myrcene	0.05	0.20	0.020
δ-Limonene	0.05	0.15	0.015
trans-Nerolidol	0.03	0.12	0.012
Ocimene	0.05	0.09	0.009
Linalool	0.05	0.07	0.007
α-Pinene	0.05	0.06	0.006
α-Terpinene	0.05	ND	ND
β-Pinene	0.05	ND	ND
Camphene	0.05	ND	ND
Caryophyllene Oxide	0.05	ND	ND
cis-Nerolidol	0.02	ND	ND
δ-3-Carene	0.05	ND	ND
Eucalyptol	0.05	<LOQ	<LOQ
γ-Terpinene	0.05	ND	ND
Geraniol	0.05	ND	ND
(-)-Guaial	0.05	ND	ND
(-)-Isopulegol	0.05	ND	ND
p-Cymene	0.05	ND	ND
Terpinolene	0.05	ND	ND



The aroma profile shown reflect the highest measured concentration, from top to bottom, respectively.

Notes and Interpretations

Final Approval



Results Approved By:
 Lucas Mason, M.S.
 Lab Director



Results Analyzed By:
 Trey Murschell, PhD
 Senior Chemist

Received: 12/12/2019

Tested: 12/13/2019

Reported: 12/26/2019

Definitions: LOQ= Limit of Quantitation, ND = Not Detected, NT = Not Tested

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Sample: 1912AU0132.19728

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Contaminant Analysis Report

Sample Name: Biomass 500/1
 Sample Type: Plant, Flower - Cured, Other
 Sample ID: 1912AU0189.20096
 Batch ID:
 METRC Tag: 1A4000712682A2A000002086

Twin Pines
 8251 5700 Rd
 Olathe, CO 81425
 (903) 343-4349
 Lic. #403H-75142.16

Pesticide Analysis Results

Analyte	LOQ	Limit	Amount	Status
	PPB	PPB	PPB	
Abamectin	40.0	70.0	ND	Pass
Azoxystrobin	10.0	20.0	ND	Pass
Bifenazate	20.0	20.0	ND	Pass
Etoxazole	10.0	10.0	ND	Pass
Imazalil	40.0	40.0	ND	Pass
Imidacloprid	10.0	20.0	ND	Pass
Malathion	40.0	50.0	ND	Pass
Myclobutanil	20.0	40.0	ND	Pass
Permethrin	10.0	40.0	ND	Pass
Spinosad	40.0	60.0	<LOQ	Pass
Spiromesifen	30.0	30.0	ND	Pass
Spirotetramat	10.0	30.0	ND	Pass
Tebuconazole	10.0	20.0	ND	Pass



Notes and Interpretations

Analyzed via AAM-008 using Agilent 1260 HPLC & 6430 MS/MS. Deviations from SOP: None

Final Approval

Test Status



Results Approved By:
 Lucas Mason, M.S.
 Lab Director



Results Analyzed By:
 Trey Murschell, PhD
 Senior Chemist

Pesticide Analysis Results

Pass

Received: 12/19/2019

Tested: 12/19/2019

Reported: 12/20/2019

Definitions: LOQ = Limit of Quantitation, ND = Not Detected, NT = Not Tested, PPM = Parts per Million

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Sample: 1912AU0189.20096

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