PROVERDE LABORATORIES

Test Certificate

Certificate ID: **84029**
Client Sample ID: **JBL**
Lot Number: **EL**
Matrix: **Concentrates/Extracts - Distillate**

Received: **7/6/20**

Scan QR Code for authenticity

244 Sanford Road
Alfred, ME 04002
Attn: HempX

Authorization:	Signature:	Date:
Scott Eaton, Lab Manager		7/13/2020

PJLA Testing
Accreditation
80585

The data contained within this report was collected in accordance with the requirements of ISO/IEC17025:2017. I attest that the information contained within the report has been reviewed for accuracy and checked against the quality control requirements for each method. These results relate only to the test article listed in this report. Reports may not be reproduced except in their entirety.

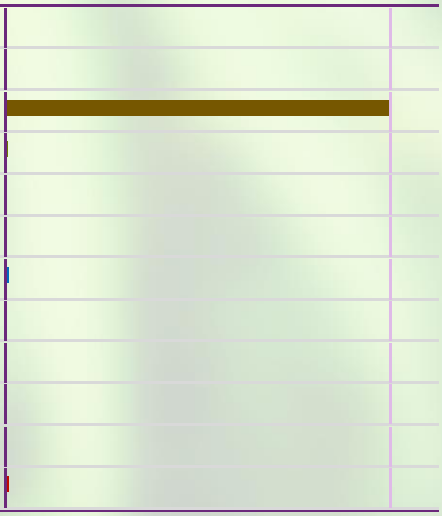
CN: Cannabinoid Profile & Potency [WI-10-17 & WI-10-17-01]

Analyst: LCH *Test Date: 7/8/2020*

The client sample was analyzed for plant-based cannabinoids by Liquid Chromatography (LC). The collected data was compared to data collected for certified reference standards at known concentrations.

84029-CN

ID	Weight %	Concentration (mg/g)
D9-THC	ND	ND
THCV	ND	ND
CBD	90.0	900
CBDV	0.491	4.91
CBG	0.169	1.69
CBC	<LOQ	<LOQ
CBN	0.684	6.84
THCA	ND	ND
CBDA	ND	ND
CBGA	ND	ND
D8-THC	ND	ND
exo-THC	0.604	6.04
Total	92.0	920
Max THC	ND	ND
Max CBD	90.0	900



Limit of Quantitation (LOQ) = 0.0921 wt%

Max THC (and Max CBD) are calculated values for total cannabinoids after heating, assuming complete decarboxylation of the acid to the neutral form. It is calculated based on the weight loss of the acid group during decarboxylation: Max THC = (0.877 x THCA) + THC. This calculation does not include other cannabinoid isomers (eg. D8-THC and exo-THC). ND = None detected above the limits of detection (LOD), which is one third of LOQ.

PIXIS Labs
A Tentamus Company

Report Number: 20-000019/D02.R00
Report Date: 01/08/2020
ORELAP#: OR100028
Purchase Order:
Received: 01/08/2020

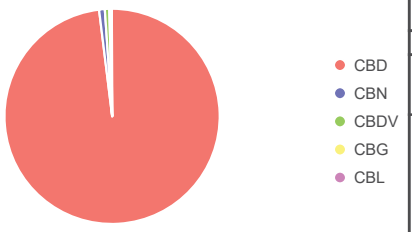
Customer: Attn: HempX LLC
15 Glidden rd
Moultonborough, Nh
603-253-5225

Laboratory ID: 20-000019-0001

Summary

Potency:

Analyte	Result (%)
CBD	90.0
CBN	0.782
CBDV†	0.620
CBG†	0.263
CBL†	0.102



CBD-Total 90.0%

THC-Total < 0.164%

(Reported in percent of total sample)

Metals:

Less than LOQ for all analytes.

Testing in accordance with: OAR 333-007-0430

PIXIS Labs
A Tentamus Company

Report Number: 20-000019/D02.R00
Report Date: 01/08/2020
ORELAP#: OR100028
Purchase Order:
Received: 01/02/20 10:30

Customer: Attn: HempX LLC
15 Glidden rd
Moultonborough, Nh
603-253-5225

Product identity:
Client/Metrc ID: .
Sample Date:
Laboratory ID: 20-000019-0001
Relinquished by: Received By Mail
Temp: 18.6 °C

Sample Results

Potency **Method** J AOAC 2015 V98-6 **Units** % **Batch** 2000172 **Analyze** 01/08/20 03:05 AM

Analyte	As Received	Dry weight	LOQ	Notes
CBC†	< LOQ		0.0872	
CBC-A†	< LOQ		0.0872	
CBC-Total†	< LOQ		0.164	
CBD	90.0		0.872	
CBD-A	< LOQ		0.0872	
CBD-Total	90.0		0.948	
CBDV†	0.620		0.0872	
CBDV-A†	< LOQ		0.0872	
CBDV-Total†	0.620		0.163	
CBG†	0.263		0.0872	
CBG-A†	< LOQ		0.0872	
CBG-Total†	0.263		0.163	
CBL†	0.102		0.0872	
CBN	0.782		0.0872	
Δ8-THC†	< LOQ		0.0872	
Δ9-THC	< LOQ		0.0872	
THC-A	< LOQ		0.0872	
THC-Total	< LOQ		0.164	
THCV†	< LOQ		0.0872	
THCV-A†	< LOQ		0.0872	
THCV-Total†	< LOQ		0.163	

Metals

Analyte	Result	Limits	Units	LOQ	Batch	Analyze	Method	Notes
Arsenic	< LOQ		mg/kg	0.0497	2000160	01/07/20	AOAC 2013.06 (mod.)	X
Cadmium	< LOQ		mg/kg	0.0497	2000160	01/07/20	AOAC 2013.06 (mod.)	X
Lead	< LOQ		mg/kg	0.0497	2000160	01/07/20	AOAC 2013.06 (mod.)	X
Mercury	< LOQ		mg/kg	0.0249	2000160	01/07/20	AOAC 2013.06 (mod.)	X

Testing in accordance with: OAR 333-007-0430

PIXIS Labs
A Tentamus Company

Report Number:	20-000019/D02.R00
Report Date:	01/08/2020
ORELAP#:	OR100028
Purchase Order:	
Received:	01/02/20 10:30

These test results are representative of the individual sample selected and submitted by the client.

Abbreviations

Limits: Action Levels per OAR-333-007-0400, OAR-333-007-0210, OAR-333-007-0220

Limit(s) of Quantitation (LOQ): The minimum levels, concentrations, or quantities of a target variable (e.g., target analyte) that can be reported with a specified degree of confidence.

† = Analyte not NELAP accredited.

Units of Measure

mg/kg = Milligram per kilogram = parts per million (ppm)

% = Percentage of sample

% wt = µg/g divided by 10,000

Glossary of Qualifiers

X: Not ORELAP accredited.

Approved Signatory

Derrick Tanner
General Manager

Testing in accordance with: OAR 333-007-0430

CERTIFICATE OF ANALYSIS

Attn: HempX LLC
15 Glidden rd
Moultnoborough, NH
603-253-5225

ORELAP: 4101 / OLCC: 010-10035537931

Client Name:	
Contact Info:	**Carl**
Sample Type:	**Extract**
External Batch ID:	**NA**
Harvest/Prod. Date:	**NA**
Sample ID:	**JB-12.30.2019**
METRC ID:	**Personal**
	20JA0003.01
Intake Date:	**1/2/2020**

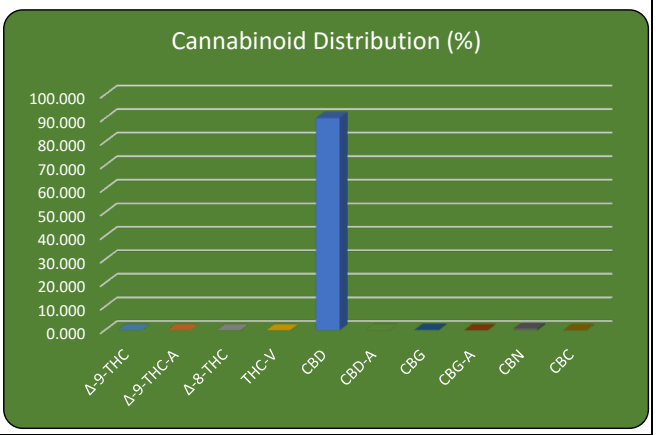
Sample not sampled per OAR 333-064-0100

Potency Analysis (Vermont Compliance Standard 333-007-0430)

ANALYSIS DATE: 1/2/2020

Instrument: HPLC/DAD
Method: JA-Potency-Proprietary

Compound	Weight (%)	Concentration (mg/g)	LOQ * (mg/g)
Δ-9-THC	< LOQ	< LOQ	1.00
Δ-9-THC-A	< LOQ	< LOQ	1.00
Δ-8-THC	< LOQ	< LOQ	1.00
THC-V	< LOQ	< LOQ	1.00
CBD	90.103	901.03	1.00
CBD-A	< LOQ	< LOQ	1.00
CBG	0.265	2.65	1.00
CBG-A	< LOQ	< LOQ	1.00
CBN	0.718	7.18	1.00
CBC	< LOQ	< LOQ	1.00



TOTAL THC/CBD	Weight (%)	Conc (mg/g)
THC Total =	**<LOQ**	**<LOQ**

THC_{Total} = (THC-A * 0.877)+Δ9THC

CBD Total =	**90.103**	**901.03**

CBD_{Total} = (CBD-A * 0.877) +CBD

< LOQ - Less than the Limit of Quantification

Residual Solvent Analysis (Vermont Compliance Standard 333-007-0410)

ANALYSIS DATE: 1/6/2020

Instrument: GC/MS
Method: USP 467 - Modified

Solvent	Result (ppm)	Action Level / LOQ (ppm)
1,4-Dioxane	<LOQ	380 / 100
2-Butanol	<LOQ	5000 / 500
2-Ethoxyethanol	<LOQ	160 / 100
2-Propanol (IPA)	<LOQ	5000 / 500
Acetone	<LOQ	5000 / 500
Acetonitrile	<LOQ	410 / 100
Benzene	<LOQ	2 / 1
Cumene	<LOQ	70 / 50
Cyclohexane	<LOQ	3880 / 500
Dichloromethane	<LOQ	600 / 100
Ethyl acetate	<LOQ	5000 / 500
Ethyl ether	<LOQ	5000 / 500
Ethylene glycol	<LOQ	620 / 300
Ethylene oxide	<LOQ	50 / 10
Heptane	<LOQ	5000 / 500
Isopropyl acetate	<LOQ	5000 / 500
Methanol	<LOQ	3000 / 500
Propane	<LOQ	5000 / 500
Tetrahydrofuran	<LOQ	720 / 100
Toluene	<LOQ	890 / 100

Solvent	Result (ppm)	Action Level / LOQ (ppm)
Pentanes;	<LOQ	5000 / 500
-n-pentane	<LOQ	**
-iso-pentane	<LOQ	**
-neo-pentane	<LOQ	**
Butanes;	<LOQ	5000 / 500
-n-butane	<LOQ	**
-iso-butane	<LOQ	**
Hexanes;	<LOQ	290 / 50
-n-hexane	<LOQ	**
-2-methylpentane	<LOQ	**
-3-methylpentane	<LOQ	**
-2,2-dimethylbutane	<LOQ	**
-2,3-dimethylbutane	<LOQ	**
Xylenes;	<LOQ	2170 / 300
-1,2-dimethylbenzene	<LOQ	**
-1,3-dimethylbenzene	<LOQ	**
-1,4-dimethylbenzene	<LOQ	**
-Ethyl benzene	<LOQ	**

**Limit based on combined results

Residual Solvents	**PASS**

<LOQ - Less than the Limit of Quantification

APPROVAL

QA Review

Report Date: 1/7/2020

	20JA0003.01
Intake Date:	1/2/2020

Pesticide Analysis (Vermont Compliance Standard 333-007-0400)

ANALYSIS DATE: 1/3/2020 Instrument: LC/MS/MS Method: AOAC 2007.1-Mod

Pesticide	Result (ppm)	Action Level / LOQ (ppm)	Pesticide	Result (ppm)	Action Level / LOQ (ppm)
Abamectin	<LOQ	0.5 / 0.25	Imazalil	<LOQ	0.2 / 0.10
Acephate	<LOQ	0.4 / 0.20	Imidacloprid	<LOQ	0.4 / 0.20
Acequinocyl	<LOQ	2.0 / 1.00	Kresoxim-methyl	<LOQ	0.4 / 0.20
Acetamiprid	<LOQ	0.2 / 0.10	Malathion	<LOQ	0.2 / 0.10
Aldicarb	<LOQ	0.4 / 0.20	Metalaxyl	<LOQ	0.2 / 0.10
Azoxystrobin	<LOQ	0.2 / 0.10	Methiocarb	<LOQ	0.2 / 0.10
Bifenazate	<LOQ	0.2 / 0.10	Methomyl	<LOQ	0.4 / 0.20
Bifenthrin	<LOQ	0.2 / 0.10	Methyl Parathion	<LOQ	0.2 / 0.10
Boscalid	<LOQ	0.4 / 0.20	MGK-264	<LOQ	0.2 / 0.10
Carbaryl	<LOQ	0.2 / 0.10	Myclobutanil	<LOQ	0.2 / 0.10
Carbofuran	<LOQ	0.2 / 0.10	Naled	<LOQ	0.5 / 0.25
Chlorantraniliprole	<LOQ	0.2 / 0.10	Oxamyl	<LOQ	1.0 / 0.50
Chlorfenapyr	<LOQ	1.0 / 0.50	Paclobutrazol	<LOQ	0.4 / 0.20
Chlorpyrifos	<LOQ	0.2 / 0.10	Permethrins	<LOQ	0.2 / 0.10
Clofentezine	<LOQ	0.2 / 0.10	Phosmet	<LOQ	0.2 / 0.10
Cyfluthrin	<LOQ	1.0 / 0.50	Piperonyl butoxide	<LOQ	2.0 / 1.00
Cypermethrin	<LOQ	1.0 / 0.50	Prallethrin	<LOQ	0.2 / 0.10
Daminozide	<LOQ	1.0 / 0.50	Propiconazole	<LOQ	0.4 / 0.20
DDVP (Dichlorvos)	<LOQ	1.0 / 0.50	Propoxur	<LOQ	0.2 / 0.10
Diazinon	<LOQ	0.2 / 0.10	Pyrethrins	<LOQ	1.0 / 0.50
Dimethoate	<LOQ	0.2 / 0.10	Pyridaben	<LOQ	0.2 / 0.10
Ethoprophos	<LOQ	0.2 / 0.10	Spinosad	<LOQ	0.2 / 0.10
Etofenprox	<LOQ	0.4 / 0.20	Spiromesifen	<LOQ	0.2 / 0.10
Etoxazole	<LOQ	0.2 / 0.10	Spirotetramat	<LOQ	0.2 / 0.10
Fenoxycarb	<LOQ	0.2 / 0.10	Spiroxamine	<LOQ	0.4 / 0.20
Fenpyroximate	<LOQ	0.4 / 0.20	Tebuconazole	<LOQ	0.4 / 0.20
Fipronil	<LOQ	0.4 / 0.20	Thiacloprid	<LOQ	0.2 / 0.10
Flonicamid	<LOQ	1.0 / 0.50	Thiamethoxam	<LOQ	0.2 / 0.10
Fludioxonil	<LOQ	0.4 / 0.20	Trifloxystrobin	<LOQ	0.2 / 0.10
Hexythiazox	<LOQ	1.0 / 0.50			
Pesticide Screen	**PASS**				

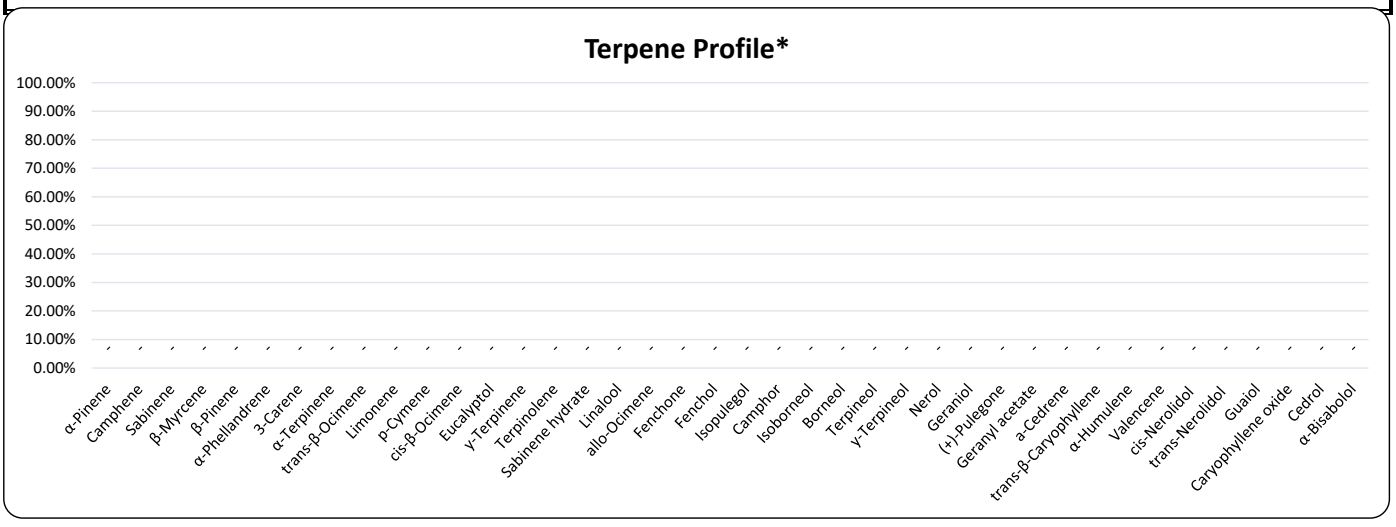
LOQ = Limit of Quantification

	20JA0003.01
Intake Date:	1/2/2020

Terpene Profile

ANALYSIS DATE: Not Tested Instrument: GC/MS Method: JA-Terpene-Proprietary

Compound	µg/g	%	Compound	µg/g	%
α-Pinene			Isopulegol		
Camphene			Camphor		
Sabinene			Isoborneol		
β-Myrcene			Borneol		
β-Pinene			Terpineol		
α-Phellandrene			y-Terpineol		
3-Carene			Nerol		
α-Terpinene			Geraniol		
trans-β-Ocimene			(+)-Pulegone		
Limonene			Geranyl acetate		
p-Cymene			a-Cedrene		
cis-β-Ocimene			trans-β-Caryophyllene		
Eucalyptol			α-Humulene		
y-Terpinene			Valencene		
Terpinolene			cis-Nerolidol		
Sabinene hydrate			trans-Nerolidol		
Linalool			Guaiol		
allo-Ocimene			Caryophyllene oxide		
Fenchone			Cedrol		
Fenchol			α-Bisabolol		
			TOTAL		



*** Profile expressed as a percent of total terpenes**

Batch QC WorkGroup ID:

Potency PO-2020-01-02-02
Residual Solvents RS-2020-01-03-01
Pesticide Pest-2020-01-02-01