ONWARD ANALYTICS

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Colchester, VT 05446
License #: TLAB0030
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info@onwardanalytics.biz

Certificate of Analysis

Client Name: Old Growth Organics, DBA Old Growth Vermont

License Number: CLTV0058

Sample ID: VT8241

Sample Name: Hash Infused Pineapple Upside Down Cake

Sample Lot: MANU0010-153-002

Sample Matrix: Infused Flower

Date Received: 3/12/2024

Date Reported: 3/14/2024

Date Tested: 3/12/2024

Total Cannabinoids

	%	mg/g
Total THC:	24.881	248.807
Total CBD:	--	--
Total Cannabinoids:	31.666	316.655

Total theoretical CBD % = (CBD%) + (CBDA% * 0.877)
Total theoretical THC % = (delta-9-THC%) + (THCA% * 0.877)

Potency

Standard potency analysis utilizing High Performance Liquid Chromatography (HPLC; SOP-024-OA) | Test ID: #24402

Analyte	% (Dry)	mg/g (Dry)	%	mg/g	LOD (mg/g)	LOQ (mg/g)
CBC	ND	ND	ND	ND	0.0003	0.0040
CBCA	1.1307	11.307	1.0158	10.158	0.0002	0.0040
CBD	ND	ND	ND	ND	0.0008	0.0040
CBDA	ND	ND	ND	ND	0.0002	0.0040
CBDV	ND	ND	ND	ND	0.0008	0.0040
CBDVA	ND	ND	ND	ND	0.0001	0.0040
CBG	< LOQ	< LOQ	< LOQ	< LOQ	0.0009	0.0040
CBGA	2.6596	26.596	2.3893	23.893	0.0001	0.0040
CBN	ND	ND	ND	ND	0.0004	0.0040
CBNA	ND	ND	ND	ND	0.0002	0.0040
D8 THC	ND	ND	ND	ND	0.0012	0.0040
D9 THC	3.5299	35.299	3.1713	31.713	0.0016	0.0049
D10 THC	ND	ND	ND	ND	0.0004	0.0040
THCA	24.3453	243.453	21.8718	218.718	0.0002	0.0040
THCV	ND	ND	ND	ND	0.0016	0.0049
THCVA	ND	ND	ND	ND	0.0002	0.0040

Moisture & Water Activity   PASS

Water Activity and Moisture Content Analysis (SOP-202-OA) | Test ID: #24411

Analyte	Result (%)	Limit	Pass/Fail
Moisture	10.16	13.00	
Water Activity	0.45	0.65	PASS

Callie Chapman
Lab Director
3/14/2024

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Sample Name: Hash Infused Pineapple Upside Down Cake

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Sample Matrix: Infused Flower

Date Received: 3/12/2024

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Date Tested: 3/12/2024

Total Terpenes (%) : 1.5779

Dominant Terpenes (%)	
beta-caryophyllene	0.5444
Ocimene	0.2183
alpha-Humulene	0.2001
Limonene	0.1346
alpha-Bisabolol	0.1341

Terpenes

Standard terpene analysis utilizing Gas Chromatography – Mass Spectrometry (GC-MS; SOP-069-OA) | Test ID: #24403

Analyte	Result (%)	Result (mg/g)	LOD (mg/g)	LOQ (mg/g)
3-Carene	0.0546	0.546	0.000002	0.002
alpha-Bisabolol	0.1341	1.341	0.000003	0.002
alpha-Humulene	0.2001	2.001	0.000002	0.002
alpha-Pinene	0.038	0.38	0.000001	0.002
alpha-Terpinene	< LOQ	< LOQ	0.000001	0.002
alpha-Terpinolene	0.0165	0.165	0.000004	0.002
beta-caryophyllene	0.5444	5.444	0.000004	0.002
beta-Pinene	0.0311	0.311	0.000002	0.002
Camphene	0.0138	0.138	0.000001	0.002
Caryophyllene Oxide	0.0429	0.429	0.000011	0.002
Eucalyptol	ND	ND	0.000002	0.002
gamma-Terpinene	ND	ND	0.000002	0.002
Geraniol	ND	ND	0.000008	0.002
Guaiol	ND	ND	0.000007	0.002
Isopulegol	ND	ND	0.000005	0.002
Isopropyl Toluene	ND	ND	0.000003	0.002
Limonene	0.1346	1.346	0.000002	0.002
Linalool	0.0793	0.793	0.000003	0.002
Nerolidol	0.0285	0.285	0.000007	0.002
Myrcene	0.0417	0.417	0.000003	0.002
Ocimene	0.2183	2.183	0.000002	0.002
Total Terpenes	**1.5779**	**15.779**		

Callie Chapman
Lab Director
3/14/2024

Certificate of Analysis

Client Name: Old Growth Organics, DBA Old Growth Vermont

License Number: CLTV0058

Sample ID: VT8650

Sample Name: Pineapple Upside Down Cake Hash

Sample Lot: MANU0010-153-002

Sample Matrix: Mechanical Extraction Concentrates

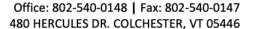**Date Received:** 3/28/2024

Date Reported: 4/2/2024

Date Tested: 3/29/2024

Pathogens — PASS

Microbiological screening utilizing qPCR (SOP-204-OA) | Test ID: #25615

Analyte	Result	Pass/Fail
A. Fumigatus	None Detected	PASS
A. Niger	None Detected	PASS
A. Flavus	None Detected	PASS
A. Terreus	None Detected	PASS
STEC	None Detected	PASS
Salmonella	None Detected	PASS

Callie Chapman
Lab Director
4/2/2024

Certificate of Analysis

Company: Old Growth Vermont

Sample ID: Pineapple Upside Down Cake

Lot: HL-CLTV0058-6

Report Date: 12/6/2023

Matrix: Flower

Date Analyzed: 12/1/2023

Customer ID: 221024-2

Date Sampled: N/A

Analyst: 053

Grower License #: CLTV0058

Date Received: 11/15/2023

Report ID: C231115BL

Water Activity Summary

Test	Method	Result
Water Activity	ASTM D8196: Determination of Water Activity in Cannabis Flower	0.5159

Test Methodology: Aqualab TDL 2 water activity meter with tunable diode laser

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Certified by: _____

Luke Emerson Mason (Laboratory Director, Bia Diagnostics)

Certificate of Analysis

Company: Old Growth Vermont

Customer ID: 221024-2
Grower License #: CLTV0058

Sample ID: Pineapple Upside Down Cake
Lot: HL-CLTV0058-6
Matrix: Flower
Date Sampled: N/A
Date Received: 11/15/2023

Report Date: 12/8/2023
Date Analyzed: 12/8/2023
Analyst: 049
Report ID: C231115BL

Pathogen Summary

Target Pathogens	Method	LOD (cfu/g)	Result (cfu/g)
Aspergillus - flavus, fumigatus, niger, terreus	Aspergillus AOAC PTM No. 032104	5	<LOD
STEC	STEC Virx AOAC PTM No. 121203	5	<LOD
Salmonella spp.	Salmonella II AOAC PTM No. 010803	5	<LOD

Test Methodology: Bio-Rad IQ-Check PCR Kits

cfu/g = colony forming units per gram

LOD = The lowest quantity that this method can reliably detect. Any microbial growth that was not detected is assumed to be less than the stated LOD (<LOD).
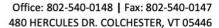
Reagent Blanks: <LOD for all analytes

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Certified by: _Luke E. M_

Luke Emerson Mason (Laboratory Director, Bia Diagnostics)

Certificate of Analysis

Company: Old Growth Vermont

Customer ID: 221024-2
Grower License #: CLTV0058

Sample ID: Pesticide Group 1: PUD, GP, PKB
Lot: HL-CLTV0058-6
Matrix: Flower
Date Sampled: N/A
Date Received: 11/15/2023

Report Date: 12/6/2023
Date Analyzed: 12/5/2023
Analyst: 045
Report ID: C231115BR

Pesticides/Mycotoxins Summary

Category II Residual Pesticide	LOQ (ppm)	Concentration (ppm)
Abamectin	0.0100	<LOQ
Acephate	0.0010	<LOQ
Acequinocyl	0.0010	<LOQ
Azoxystrobin	0.0010	<LOQ
Bifenazate	0.0010	<LOQ
Bifenthrin	0.0010	<LOQ
Carbaryl	0.0010	<LOQ
Cypermethrin	0.0100	<LOQ
Etoxazole	0.0010	<LOQ
Imidacloprid	0.0010	<LOQ
Myclobutanil	0.0010	<LOQ
Pyrethrin I	0.0010	<LOQ
Pyrethrin II	0.0010	<LOQ
Spinosyn A	0.0010	<LOQ
Spinosyn D	0.0010	<LOQ

Category II Mycotoxin	LOQ (ppm)	Concentration (ppm)
Ochratoxin A	0.0020	NOT TESTED
Aflatoxin B1	0.0002	NOT TESTED
Alfatoxin B2	0.0010	NOT TESTED
Alfatoxin G1	0.0002	NOT TESTED
Alfatoxin G2	0.0010	NOT TESTED

Category I Residual Pesticide	LOQ (ppm)	Concentration (ppm)
Chlorpyrifos	0.0010	<LOQ
Imazalil	0.0010	<LOQ

N/A
Percent Moisture

LOQ = The lowest quantity this method can reliably detect. Any pesticide or mycotoxins that was not detected is assumed to be less than the stated LOQ (<LOQ).

All results reflect dry weight of material, based on % moisture of the sample.

ppb = parts per billion

Pesticides/Mycotoxin Methodology: Liquid Chromatography with Tandem Mass Spectrometry using PerkinElme QSight® LX50 UHPLC and QSight 220 Mass Spectrometer

All moisture analysis is determined by loss-on-drying measurement using OHAUS Model MB90 Moisture Content Readers.

Certified by: _____ *Luke E. M*
Luke Emerson Mason (Laboratory Director, Bia Diagnostics)

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