

## Berry Biscotti Fusion

 Sample ID: BIA240523S0013  
 Strain: Biscotti/Blueberry Muffin

 Matrix: Plant  
 Type: Enhanced/Infused Preroll  
 Sample Size: 4.8 g  
 Lot#: MANU0010-211-05

 Produced:  
 Collected:  
 Received: 05/24/2024  
 Completed: 05/29/2024  
 Batch#:

 Client  
**Old Growth Vermont**  
 Lic. # CLTV0058  
 1057 BRUCE BADGER MEMORIAL HWY  
 DANVILLE, VT 05828


### Summary

Test	Date Tested	Result
Sample		Complete
Cannabinoids	05/28/2024	Complete
Moisture	05/24/2024	10.70% - Complete
Terpenes	05/28/2024	Complete

### Cannabinoids

Completed

31.46%		0.19%		36.81%	
Total THC		Total CBD		Total Cannabinoids	
Analyte	LOQ	Mass	Mass		
	%	%	mg/g		
CBDVa	0.0001	<LOQ	<LOQ		
CBDV	0.0001	<LOQ	<LOQ		
CBDa	0.0001	0.21	2.1		
CBGa	0.0001	1.23	12.3		
CBG	0.0002	0.18	1.8		
CBD	0.0002	<LOQ	<LOQ		
THCV	0.0002	0.07	0.7		
CBN	0.0001	<LOQ	<LOQ		
Δ9-THC	0.0002	5.42	54.2		
Δ8-THC	0.0002	<LOQ	<LOQ		
THCa	0.0003	29.69	296.9		
CBC	0.0002	<LOQ	<LOQ		
<b>Total THC</b>		<b>31.46</b>	<b>314.60</b>		
<b>Total CBD</b>		<b>0.19</b>	<b>1.87</b>		
<b>Total</b>		<b>36.81</b>	<b>368.08</b>		

Analyst: 056

Cannabinoids Methodology: High Performance Liquid Chromatography (HPLC) using PerkinElmer FLEXAR™ with Photo Diode Array Detector (PDA)

Total CBD and total THC are calculated values, to account for assumed decarboxylation from the acid form (THCA or CBDA) to the neutral form, causing weight loss of the acid group. These values are calculated as follows:

$$\text{Total THC} = (\text{THCA} \times 0.877) + \Delta 9\text{-THC}$$

$$\text{Total CBD} = (\text{CBDA} \times 0.877) + \text{CBD Reagent}$$

Blanks: &lt; LOQs for all analytes

LOQ = The lowest quantity that this method can reliably detect. Any cannabinoid that was not detected is assumed to be less than the stated LOQ (&lt;LOQ).

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

Measurement of Uncertainty (MU): the parameter, associated with the result of a measurement, that characterizes the dispersion of the values that could reasonably be attributed to the particular quantity subject to measurement. Δ9-THC MU = ±0.005% Total THC MU = ±0.007%

All other cannabinoid MU values are available upon request.

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




 Luke Emerson-Mason  
 Laboratory Director  
 05/29/2024

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## Berry Biscotti Fusion

 Sample ID: BIA240523S0013  
 Strain: Biscotti/Blueberry Muffin

 Matrix: Plant  
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 Sample Size: 4.8 g  
 Lot#: MANU0010-211-05

 Produced:  
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**Old Growth Vermont**  
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## Terpenes

Completed

Analyte	LOQ	Results	Results
	mg/g	mg/g	%
$\beta$ -Caryophyllene	0.010	9.297	0.930
$\alpha$ -Humulene	0.010	4.116	0.412
Limonene	0.010	1.950	0.195
Ocimene	0.010	1.034	0.103
$\beta$ -Pinene	0.010	0.811	0.081
$\alpha$ -Pinene	0.010	0.774	0.077
$\beta$ -Myrcene	0.010	0.534	0.053
Linalool	0.010	0.470	0.047
Caryophyllene Oxide	0.010	0.339	0.034
$\alpha$ -Bisabolol	0.010	0.306	0.031
Eucalyptol	0.010	0.165	0.016
Terpinolene	0.010	0.150	0.015
Camphene	0.010	0.125	0.012
Guaiol	0.010	0.058	0.006
$\gamma$ -Terpinene	0.010	0.024	0.002
3-Carene	0.010	0.017	0.002
$\alpha$ -Terpinene	0.010	0.014	0.001
cis-Nerolidol	0.010	<LOQ	<LOQ
Geraniol	0.010	<LOQ	<LOQ
Isopulegol	0.010	<LOQ	<LOQ
p-Cymene	0.010	<LOQ	<LOQ
trans-Nerolidol	0.010	<LOQ	<LOQ
<b>Total</b>		<b>20.184</b>	<b>2.018</b>

## Primary Aromas

				
Cinnamon	Hops	Orange	Earthy	Pine

Analyst: 048

LOQ = The lowest quantity this method can reliably detect. Any terpene that was not detected is assumed to be less than the stated LOQ (&lt;LOQ).

Terpene Methodology: Headspace Sampler, Gas Chromatography-Mass Spectrometry (GC-MS), using Perkin Elmer Clarus® SQ8 GC MS

Reagent Blanks: &lt; LOQs for all analytes

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

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




 Luke Emerson-Mason  
 Laboratory Director  
 05/29/2024

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# Certificate of Analysis



**Client Name:** Old Growth Organics, DBA Old Growth  
Vermont

**License Number:** CLTV0058



**Sample ID:** VT9405

**Sample Name:** Blueberry Muffin Bubble Hash

**Sample Lot:** MANU0010-SP014-01

**Sample Matrix:** Mechanical Extraction Concentrates

**Date Received:** 4/25/2024

**Date Reported:** 5/2/2024

**Date Tested:** 4/26/2024



## Pathogens

**PASS**

Microbiological screening utilizing qPCR (SOP-204-OA) | Test ID: #27928

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  
5/2/2024

In performing the services, Onward Analytics, ("OA") shall exercise a degree of skill and care ordinarily exercised by a reasonably prudent laboratory professional under similar circumstances. Except as set forth in the preceding sentence, client acknowledges and agrees that: (a) the services may require OA to make judgements based upon limited data rather than upon scientific certainties; (b) OA's approach, recommendations, and associated cost estimates, if any, are based on industry practices and averages; (c) OA renders its opinions with respect to observations made and data available at the time of testing; (d) ultimate outcomes could be inconsistent with OA's conclusions, results and projections; and (e) there may be additional reports relating to the site (whether prepared by OA or other parties), and reliance upon any OA report without reference to any such other reports is done at client's sole risk.





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### Certificate of Analysis

Company: Old Growth Vermont

Sample ID: Pesticide Group 1: SD, BI, PMPP

Lot: HL-CLTV0058-7

Report Date: 12/6/2023

Matrix: Flower

Date Analyzed: 12/5/2023

Customer ID: 221024-2

Date Sampled: N/A

Analyst: 045

Grower License #: CLTV0058

Date Received: 11/15/2023

Report ID: C231115BZ

### 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.

This report shall not be reproduced except in full without approval of the laboratory. This is to provide assurance that parts of a report are not taken out of context.  
Results apply to the samples as received.

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Certified by:

Luke Emerson Mason (Laboratory Director, Bia Diagnostics)



**Bia Diagnostics**  
Laboratories

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### Certificate of Analysis

**Company:** Old Growth Vermont

**Sample ID:** Biscotti

**Lot:** CLTV0058-7

**Matrix:** Flower

**Report Date:** 1/26/2024

**Date Analyzed:** 1/25/2024

**Analyst:** 018

**Report ID:** C240118AH

**Customer ID:** 221024-2

**Date Sampled:** N/A

**Date Received:** 1/18/2024

**Grower License #:** CLTV0058

### Pathogen Summary

Target Pathogens	Method	LOD (cfu/g)	Result (cfu/g)
Aspergillus - flavus, fumigatus, niger, terreus	Aspergillus AOAC PTM No. 032104 w/ FDRS	5	<LOD
STEC	STEC Virx AOAC PTM No. 121203	5	NOT TESTED
Salmonella spp.	Salmonella II AOAC PTM No. 010803	5	NOT TESTED



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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### Certificate of Analysis

Company: Old Growth Vermont

Sample ID: Biscotti

Lot: HL-CLTV0058-7

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: C231115BU

### Water Activity Summary

Test	Method	Result
Water Activity	ASTM D8196: Determination of Water Activity in Cannabis Flower	0.5223



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

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## Certificate of Analysis

**Company:** Old Growth Vermont

**Sample ID:** Blueberry muffin

**Lot:** HL-CLTV0058-6

**Matrix:** Flower

**Report Date:** 10/12/2023

**Date Analyzed:** 10/12/2023

**Customer ID:** 221024-2

**Date Sampled:** N/A

**Analyst:** 049

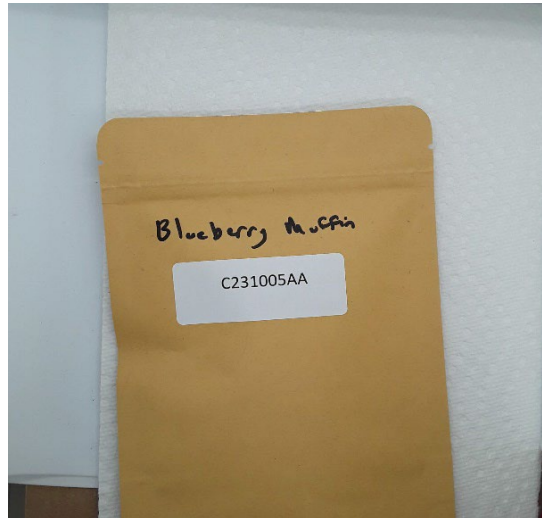
**Grower License #:** CLTV0058

**Date Received:** 10/5/2023

**Report ID:** C231005AA

## 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 (&lt;LOD).

Reagent Blanks: &lt;LOD for all analytes

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## Certificate of Analysis

**Company:** Old Growth Vermont

**Sample ID:** Harvest Lot

**Lot:** HL-CLTV0058-6

**Report Date:** 10/13/2023

**Matrix:** Flower

**Date Analyzed:** 10/11/2023

**Customer ID:** 221024-2

**Date Sampled:** N/A

**Analyst:** 045

**Grower License #:** CLTV0058

**Date Received:** 10/5/2023

**Report ID:** C231005AC

### 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

**14.58%**

**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.

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### Certificate of Analysis

**Company:** Old Growth Vermont

**Sample ID:** Blueberry Muffin

**Lot:** HL-CLTV0058-6

**Matrix:** Flower

**Report Date:** 11/13/2023

**Date Analyzed:** 11/8/2023

**Analyst:** 049

**Report ID:** C231027BG

**Customer ID:** 221024-2

**Grower License #:** CLTV0058

**Date Sampled:** N/A

**Date Received:** 10/27/2023

### Water Activity Summary

Test	Method	Result
Water Activity	ASTM D8196: Determination of Water Activity in Cannabis Flower	0.5349



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

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