



261 Mountain View Dr  
 Colchester, VT 05446  
 License #: TLAB0030  
 802-767-7256  
 info@onwardanalytics.biz

# Certificate of Analysis

**Client Name:** Forest City  
**License Number:** CLTV0022

**Sample ID:** VT14503  
**Sample Name:** Marmalade  
**Sample Lot:** CLTV0022-107-001-B  
**Sample Matrix:** Flower  
**Date Received:** 10/28/2024  
**Date Reported:** 11/4/2024  
**Date Tested:** 10/29/2024



Total Cannabinoids		
	%	mg/g
<b>Total THC:</b>	<b>25.335</b>	<b>253.351</b>
<b>Total CBD:</b>	<b>--</b>	<b>--</b>
<b>Total Cannabinoids:</b>	<b>29.809</b>	<b>298.093</b>

**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: #45489

Analyte	% (Dry)	mg/g (Dry)	%	mg/g	LOD (mg/g)	LOQ (mg/g)
CBC	ND	ND	ND	ND	0.0003	0.0040
CBCA	< LOQ	< LOQ	< LOQ	< LOQ	0.0002	0.0040
CBD	< LOQ	< LOQ	< LOQ	< LOQ	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	1.0845	10.845	0.9777	9.777	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	1.1661	11.661	1.0513	10.513	0.0016	0.0049
D10 THC	ND	ND	ND	ND	0.0004	0.0040
THCA	27.5587	275.587	24.8441	248.441	0.0002	0.0040
THCV	ND	ND	ND	ND	0.0016	0.0049
THCVA	< LOQ	< LOQ	< LOQ	< LOQ	0.0002	0.0040

## Moisture & Water Activity PASS

Water Activity and Moisture Content Analysis (SOP-202-OA) | Test ID: #46164

Analyte	Result (%)	Limit	Pass/Fail
Moisture	9.85	13.00	PASS
Water Activity	0.40	0.65	

*Callie Chapman*

Callie Chapman  
 Lab Director  
 11/4/2024

Rev. 1 Initial Release

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**Sample ID:** VT14502  
**Sample Name:** Marmalade  
**Sample Lot:** CLTV0022-107-001-A  
**Sample Matrix:** Flower  
**Date Received:** 10/28/2024  
**Date Reported:** 11/4/2024  
**Date Tested:** 10/29/2024



## Pathogens PASS

Microbiological screening utilizing qPCR (SOP-204-OA) | Test ID: #45488

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



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**Sample Lot:** CLTV0022-107-001-A  
**Sample Matrix:** Flower  
**Date Received:** 10/28/2024  
**Date Reported:** 11/4/2024  
**Date Tested:** 11/1/2024



**Total Terpenes (%) : 2.2703**

Dominant Terpenes (%)	
Myrcene	1.2722
alpha-Pinene	0.2536
beta-caryophyllene	0.1737
Limonene	0.1418
Linalool	0.1233

## Terpenes

Standard terpene analysis utilizing Gas Chromatography – Mass Spectrometry (GC-MS; SOP-069-OA) | Test ID: #45487

Analyte	Result (%)	Result (mg/g)	LOD (mg/g)	LOQ (mg/g)
3-Carene	ND	ND	0.000002	0.001
alpha-Bisabolol	0.0142	0.142	0.000003	0.001
alpha-Humulene	0.0589	0.589	0.000002	0.001
alpha-Pinene	0.2536	2.536	0.000001	0.001
alpha-Terpinene	ND	ND	0.000001	0.001
alpha-Terpinolene	< LOQ	< LOQ	0.000004	0.001
beta-caryophyllene	0.1737	1.737	0.000004	0.001
beta-Pinene	0.1086	1.086	0.000002	0.001
Camphene	0.0045	0.045	0.000001	0.001
Caryophyllene Oxide	0.009	0.09	0.000011	0.001
Eucalyptol	ND	ND	0.000002	0.001
gamma-Terpinene	ND	ND	0.000002	0.001
Geraniol	0.0139	0.139	0.000008	0.003
Guaiol	ND	ND	0.000007	0.001
Isopulegol	ND	ND	0.000005	0.001
Isopropyl Toluene	ND	ND	0.000003	0.001
Limonene	0.1418	1.418	0.000002	0.001
Linalool	0.1233	1.233	0.000003	0.001
Nerolidol	0.0215	0.215	0.000007	0.001
Myrcene	1.2722	12.722	0.000003	0.001
Ocimene	0.0751	0.751	0.000002	0.001
<b>Total Terpenes</b>	<b>2.2703</b>	<b>22.703</b>		



*Callie Chapman*

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 Lab Director  
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**Date Tested:** 10/31/2024



## Pesticides Pass

Residual pesticide analysis utilizing Liquid Chromatography – Mass Spectrometry (LC-MSMS; SOP-070-OA) - **Limit units: ppm** | Test ID: #45486

Analyte	Pass/Fail	Result (ppm)	Limit	LOD (ppm)	LOQ (ppm)
Abamectin B1a	Pass	ND	0.10000	0.00687	0.02081
Abamectin B1b	Pass	ND	0.10000	0.00133	0.00405
Acephate	Pass	ND	0.10000	0.02214	0.06710
Acequinocyl	Pass	ND	0.10000	0.02276	0.06897
Azoxystrobin	Pass	ND	0.10000	0.01262	0.03825
Bifenazate	Pass	ND	0.10000	0.01232	0.03734
Bifenthrin	Pass	ND	3.00000	0.04612	0.13976
Carbaryl	Pass	ND	0.50000	0.01039	0.03149
Chlorpyrifos	Pass	ND	0.04000	0.00702	0.02128
Cypermethrin	Pass	ND	1.00000	0.02839	0.08604
Etoxazole	Pass	ND	0.10000	0.00915	0.02772
Imazalil	Pass	ND	0.04000	0.00664	0.02012
Imidacloprid	Pass	ND	5.00000	0.02001	0.06063
Myclobutanil	Pass	ND	0.10000	0.01691	0.05123
Spinosyn A	Pass	ND	0.10000	0.00632	0.01916
Spinosyn D	Pass	ND	0.10000	0.00256	0.00775
Pyrethrins	Pass	ND	0.50000	0.00022 0.00498*	0.00072 0.00015*

\* Pyrethrins action limit represents sum of isomers I & II



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