



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

# Certificate of Analysis



**Client Name:** Full Circle Farm

**License Number:** CLVT-0051



**Sample ID:** VT4494

**Sample Name:** AK-47

**Sample Lot:** MANU0010-244-04

**Sample Matrix:** Flower

**Date Received:** 10/26/2023

**Date Reported:** 9/12/2024

**Date Tested:** 10/30/2023



## Total Cannabinoids

	%	mg/g
<b>Total THC:</b>	<b>19.093</b>	<b>190.929</b>
<b>Total CBD:</b>	<b>--</b>	<b>--</b>
<b>Total Cannabinoids:</b>	<b>23.488</b>	<b>234.880</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: #11736

Analyte	% (Dry)	mg/g (Dry)	%	mg/g	LOD (mg/g)	LOQ (mg/g)
CBC	ND	ND	ND	ND	0.0003	0.0040
CBCA	0.3879	3.879	0.3353	3.353	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	1.3294	13.294	1.149	11.49	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	< LOQ	< LOQ	< LOQ	< LOQ	0.0016	0.0049
D10 THC	ND	ND	ND	ND	0.0004	0.0040
THCA	21.7707	217.707	18.8164	188.164	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: #11737

Analyte	Result (%)	Limit	Pass/Fail
Moisture	13.57	13.00	PASS
Water Activity	0.62	0.65	

*Callie Chapman*

Callie Chapman  
Lab Director  
9/12/2024

Rev. 02 Editorial: Lot Code

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**Sample Name:** AK-47

**Sample Lot:** MANU0010-244-04

**Sample Matrix:** Flower

**Date Received:** 10/26/2023

**Date Reported:** 9/12/2024

**Date Tested:** 10/30/2023



**Total Terpenes (%) : 2.1902**

### Dominant Terpenes (%)

beta-caryophyllene	0.6977
Limonene	0.3461
alpha-Humulene	0.2639
Myrcene	0.1656
alpha-Bisabolol	0.1339

## Terpenes

Standard terpene analysis utilizing Gas Chromatography – Mass Spectrometry (GC-MS; SOP-069-OA) | Test ID: #11738

Analyte	Result (%)	Result (mg/g)	LOD (mg/g)	LOQ (mg/g)
3-Carene	ND	ND	0.000002	0.002
alpha-Bisabolol	0.1339	1.339	0.000003	0.002
alpha-Humulene	0.2639	2.639	0.000002	0.002
alpha-Pinene	0.0563	0.563	0.000001	0.002
alpha-Terpinene	0.0357	0.357	0.000001	0.002
alpha-Terpinolene	0.051	0.51	0.000004	0.002
beta-caryophyllene	0.6977	6.977	0.000004	0.002
beta-Pinene	0.0789	0.789	0.000002	0.002
Camphene	0.0426	0.426	0.000001	0.002
Caryophyllene Oxide	0.0797	0.797	0.000011	0.002
Eucalyptol	0.0242	0.242	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	0.3461	3.461	0.000002	0.002
Linalool	0.0834	0.834	0.000003	0.002
Nerolidol	0.0926	0.926	0.000007	0.002
Myrcene	0.1656	1.656	0.000003	0.002
Ocimene	0.0386	0.386	0.000002	0.002
<b>Total Terpenes</b>	<b>2.1902</b>	<b>21.902</b>		

*Callie Chapman*

Callie Chapman  
Lab Director  
9/12/2024

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# Certificate of Analysis



**Client Name:** Full Circle Farm

**License Number:** CLVT-0051



**Sample ID:** VT4495

**Sample Name:** Green Crack

**Sample Lot:** MANU0010-244-03

**Sample Matrix:** Flower

**Date Received:** 10/26/2023

**Date Reported:** 9/12/2024

**Date Tested:** 10/30/2023



## Total Cannabinoids

	%	mg/g
<b>Total THC:</b>	<b>20.479</b>	<b>204.787</b>
<b>Total CBD:</b>	<b>--</b>	<b>--</b>
<b>Total Cannabinoids:</b>	<b>25.547</b>	<b>255.469</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: #11740

Analyte	% (Dry)	mg/g (Dry)	%	mg/g	LOD (mg/g)	LOQ (mg/g)
CBC	ND	ND	ND	ND	0.0003	0.0040
CBCA	0.3312	3.312	0.2862	2.862	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	1.5574	15.574	1.346	13.46	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	0.3847	3.847	0.3325	3.325	0.0016	0.0049
D10 THC	ND	ND	ND	ND	0.0004	0.0040
THCA	22.9122	229.122	19.803	198.03	0.0002	0.0040
THCV	ND	ND	ND	ND	0.0016	0.0049
THCVA	0.3614	3.614	0.3124	3.124	0.0002	0.0040

## Moisture & Water Activity

**PASS**

Water Activity and Moisture Content Analysis (SOP-202-OA) | Test ID: #11741

Analyte	Result (%)	Limit	Pass/Fail
Moisture	13.57	13.00	PASS
Water Activity	0.62	0.65	

*Callie Chapman*

Callie Chapman  
Lab Director  
9/12/2024

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## Certificate of Analysis



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**Sample ID:** VT4495

**Sample Name:** Green Crack

**Sample Lot:** MANU0010-244-03

**Sample Matrix:** Flower

**Date Received:** 10/26/2023

**Date Reported:** 9/12/2024

**Date Tested:** 10/30/2023



**Total Terpenes (%) : 2.6138**

### Dominant Terpenes (%)

beta-caryophyllene	0.7099
Myrcene	0.4334
Limonene	0.3719
alpha-Bisabolol	0.2637
alpha-Humulene	0.2449

## Terpenes

Standard terpene analysis utilizing Gas Chromatography – Mass Spectrometry (GC-MS; SOP-069-OA) | Test ID: #11742

Analyte	Result (%)	Result (mg/g)	LOD (mg/g)	LOQ (mg/g)
3-Carene	ND	ND	0.000002	0.002
alpha-Bisabolol	0.2637	2.637	0.000003	0.002
alpha-Humulene	0.2449	2.449	0.000002	0.002
alpha-Pinene	0.0601	0.601	0.000001	0.002
alpha-Terpinene	ND	ND	0.000001	0.002
alpha-Terpinolene	ND	ND	0.000004	0.002
beta-caryophyllene	0.7099	7.099	0.000004	0.002
beta-Pinene	0.0839	0.839	0.000002	0.002
Camphene	0.0446	0.446	0.000001	0.002
Caryophyllene Oxide	0.0799	0.799	0.000011	0.002
Eucalyptol	0.0334	0.334	0.000002	0.002
gamma-Terpinene	ND	ND	0.000002	0.002
Geraniol	ND	ND	0.000008	0.002
Guaiol	0.0854	0.854	0.000007	0.002
Isopulegol	ND	ND	0.000005	0.002
Isopropyl Toluene	ND	ND	0.000003	0.002
Limonene	0.3719	3.719	0.000002	0.002
Linalool	0.0858	0.858	0.000003	0.002
Nerolidol	0.1169	1.169	0.000007	0.002
Myrcene	0.4334	4.334	0.000003	0.002
Ocimene	ND	ND	0.000002	0.002
<b>Total Terpenes</b>	<b>2.6138</b>	<b>26.138</b>		

*Callie Chapman*

Callie Chapman  
Lab Director  
9/12/2024

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**Sample Name:** AK-47

**Sample Lot:** MANU0010-244-04

**Sample Matrix:** Flower

**Date Received:** 10/26/2023

**Date Reported:** 9/12/2024

**Date Tested:** 10/30/2023



### Pathogens

PASS

Microbiological screening utilizing qPCR (SOP-204-OA) | Test ID: #11739

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

ONWARD  
ANALYTICS

Callie Chapman  
Lab Director  
9/12/2024

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**Sample ID:** VT4495

**Sample Name:** Green Crack

**Sample Lot:** MANU0010-244-03

**Sample Matrix:** Flower

**Date Received:** 10/26/2023

**Date Reported:** 9/12/2024

**Date Tested:** 10/30/2023



### Pathogens

PASS

Microbiological screening utilizing qPCR (SOP-204-OA) | Test ID: #11743

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

ONWARD  
ANALYTICS

*Callie Chapman*

Callie Chapman  
Lab Director  
9/12/2024

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## Certificate of Analysis



**Client Name:** Full Circle Farm

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**Sample ID:** VT4498

**Sample Name:** HL1: RH,AK47,GCV,TW,FD

**Sample Lot:** CLTV0250-001-00

**Sample Matrix:** Flower

**Date Received:** 10/26/2023

**Date Reported:** 11/3/2023

**Date Tested:** 10/30/2023



### Pesticides

Pass

Residual pesticide analysis utilizing Liquid Chromatography – Mass Spectrometry (LC-MSMS; SOP-070-OA) - Limit units: ppm | Test ID: #11752

Analyte	Pass/Fail	Result (ppm)	Limit	LOD (ppm)	LOQ (ppm)
Abamectin B1a	Pass	ND	0.10000	0.00156	0.01560
Abamectin B1b	Pass	ND	0.10000	0.00006	0.00060
Acephate	Pass	ND	0.10000	0.00168	0.01680
Acequinocyl	Pass	ND	0.10000	0.00167	0.01670
Azoxystrobin	Pass	ND	0.10000	0.00168	0.01680
Bifenazate	Pass	ND	0.10000	0.00167	0.01670
Bifenthrin	Pass	ND	3.00000	0.00167	0.01670
Carbaryl	Pass	ND	0.50000	0.00167	0.01670
Chlorpyrifos	Pass	ND	0.04000	0.00167	0.01670
Cypermethrin	Pass	ND	1.00000	0.00168	0.01680
Etoxazole	Pass	ND	0.10000	0.00168	0.01680
Imazalil	Pass	ND	0.04000	0.00167	0.01670
Imidacloprid	Pass	ND	5.00000	0.00166	0.01660
Myclobutanil	Pass	ND	0.10000	0.00167	0.01670
Spinosyn A	Pass	ND	0.10000	0.00120	0.01199
Spinosyn D	Pass	ND	0.10000	0.00042	0.00415
Pyrethrins	Pass	ND	0.50000	0.00022 0.00498 *	0.00072 0.00015 *

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

Callie Chapman  
Lab Director  
11/3/2023

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