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

Certificate of Analysis

Client Name: Birdland
License Number: CLTV-0235

Sample ID: VT16966
Sample Name: Chem and G-Mob Mix
Sample Lot: manu0031-250
Sample Matrix: Mechanical Extraction Concentrates
Date Received: 12/27/2024
Date Reported: 1/6/2025
Date Tested: 12/30/2024

Total Cannabinoids

	%	mg/g
Total THC:	**59.401**	**594.011**
Total CBD:	**0.494**	**4.937**
Total Cannabinoids:	**76.822**	**768.222**

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: #55113

Analyte	%	mg/g	LOD (mg/g)	LOQ (mg/g)
CBC	ND	ND	0.0003	0.0040
CBCA	2.016	20.16	0.0002	0.0040
CBD	0.4937	4.937	0.0008	0.0040
CBDA	ND	ND	0.0002	0.0040
CBDV	ND	ND	0.0008	0.0040
CBDVA	ND	ND	0.0001	0.0040
CBG	ND	ND	0.0009	0.0040
CBGA	6.5803	65.803	0.0001	0.0040
CBN	ND	ND	0.0004	0.0040
CBNA	ND	ND	0.0002	0.0040
D8 THC	< LOQ	< LOQ	0.0012	0.0040
D9 THC	ND	ND	0.0016	0.0049
D10 THC	ND	ND	0.0004	0.0040
THCA	67.7322	677.322	0.0002	0.0040
THCV	ND	ND	0.0016	0.0049
THCVA	< LOQ	< LOQ	0.0002	0.0040

Callie Chapman
Lab Director
1/6/2025

Rev. 1	Initial Release

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Certificate of Analysis

Client Name: Birdland
License Number: CLTV-0235

Sample ID: VT16966
Sample Name: Chem and G-Mob Mix
Sample Lot: manu0031-250
Sample Matrix: Mechanical Extraction Concentrates
Date Received: 12/27/2024
Date Reported: 1/6/2025
Date Tested: 12/30/2024

Total Terpenes (%) : 5.1347

Dominant Terpenes (%)	
beta-caryophyllene	**1.7872**
Limonene	**1.3116**
Myrcene	**0.8259**
alpha-Humulene	**0.558**
beta-Pinene	**0.1703**

Terpenes

Standard terpene analysis utilizing Gas Chromatography – Mass Spectrometry (GC-MS; SOP-069-OA) | Test ID: #55114

Analyte	Result (%)	Result (mg/g)	LOD (mg/g)	LOQ (mg/g)
3-Carene	ND	ND	0.000002	0.001
alpha-Bisabolol	0.1189	1.189	0.000003	0.001
alpha-Humulene	0.558	5.58	0.000002	0.001
alpha-Pinene	0.0894	0.894	0.000001	0.001
alpha-Terpinene	ND	ND	0.000001	0.001
alpha-Terpinolene	0.0129	0.129	0.000004	0.001
beta-caryophyllene	1.7872	17.872	0.000004	0.001
beta-Pinene	0.1703	1.703	0.000002	0.001
Camphene	0.022	0.22	0.000001	0.001
Caryophyllene Oxide	0.0512	0.512	0.000011	0.001
Eucalyptol	ND	ND	0.000002	0.001
gamma-Terpinene	ND	ND	0.000002	0.001
Geraniol	ND	ND	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	1.3116	13.116	0.000002	0.001
Linalool	0.0803	0.803	0.000003	0.001
Nerolidol	0.107	1.07	0.000007	0.001
Myrcene	0.8259	8.259	0.000003	0.001
Ocimene	ND	ND	0.000002	0.001
Total Terpenes	**5.1347**	**51.347**		

Callie Chapman
Lab Director
1/6/2025

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Certificate of Analysis

Client Name: Birdland
License Number: CLTV-0235

Sample ID: VT16966
Sample Name: Chem and G-Mob Mix
Sample Lot: manu0031-250
Sample Matrix: Mechanical Extraction Concentrates
Date Received: 12/27/2024
Date Reported: 1/6/2025
Date Tested: 12/30/2024

Pathogens — PASS

Microbiological screening utilizing qPCR (SOP-204-OA) | Test ID: #55115

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
1/6/2025

Rev. 1	Initial Release

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Certificate of Analysis

Client Name: Birdland
License Number: CLTV-0235

Sample ID: VT15592
Sample Name: Chemmy G
Sample Lot: HL-CLTV0235-3-16
Sample Matrix: Flower
Date Received: 11/15/2024
Date Reported: 11/25/2024
Date Tested: 11/20/2024

Total Cannabinoids

	%	mg/g
Total THC:	**23.217**	**232.170**
Total CBD:	**--**	**--**
Total Cannabinoids:	**29.530**	**295.301**

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: #49732

Analyte	% (Dry)	mg/g (Dry)	%	mg/g	LOD (mg/g)	LOQ (mg/g)
CBC	ND	ND	ND	ND	0.0003	0.0040
CBCA	0.8265	8.265	0.74	7.4	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	ND	ND	ND	ND	0.0009	0.0040
CBGA	2.275	22.75	2.0368	20.368	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	0.3183	3.183	0.285	2.85	0.0016	0.0049
D10 THC	< LOQ	< LOQ	< LOQ	< LOQ	0.0004	0.0040
THCA	26.1103	261.103	23.3765	233.765	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: #49733

Analyte	Result (%)	Limit	Pass/Fail
Moisture	10.47	13.00	
Water Activity	0.44	0.65	PASS

Callie Chapman
Lab Director
11/25/2024

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Certificate of Analysis

Client Name: Birdland
License Number: CLTV-0235

Sample ID: VT15592
Sample Name: Chemmy G
Sample Lot: HL-CLTV0235-3-16
Sample Matrix: Flower
Date Received: 11/15/2024
Date Reported: 11/25/2024
Date Tested: 11/18/2024

Pathogens — PASS

Microbiological screening utilizing qPCR (SOP-204-OA) | Test ID: #49735

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
11/25/2024

Rev. 1	Initial Release

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Certificate of Analysis

Client Name: Birdland
License Number: CLTV-0235

Sample ID: VT15590
Sample Name: G-MOB
Sample Lot: HL-CLTV0235-3-18
Sample Matrix: Flower
Date Received: 11/15/2024
Date Reported: 11/25/2024
Date Tested: 11/21/2024

Total Cannabinoids

	%	mg/g
Total THC:	**22.787**	**227.874**
Total CBD:	**--**	**--**
Total Cannabinoids:	**28.296**	**282.964**

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: #49724

Analyte	% (Dry)	mg/g (Dry)	%	mg/g	LOD (mg/g)	LOQ (mg/g)
CBC	ND	ND	ND	ND	0.0003	0.0040
CBCA	0.5864	5.864	0.529	5.29	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	ND	ND	ND	ND	0.0009	0.0040
CBGA	1.763	17.63	1.5906	15.906	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	0.2588	2.588	0.2335	2.335	0.0016	0.0049
D10 THC	< LOQ	< LOQ	< LOQ	< LOQ	0.0004	0.0040
THCA	25.6882	256.882	23.1759	231.759	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: #49725

Analyte	Result (%)	Limit	Pass/Fail
Moisture	9.78	13.00	
Water Activity	0.40	0.65	PASS

Callie Chapman
Lab Director
11/25/2024

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Certificate of Analysis

Client Name: Birdland
License Number: CLTV-0235

Sample ID: VT15590
Sample Name: G-MOB
Sample Lot: HL-CLTV0235-3-18
Sample Matrix: Flower
Date Received: 11/15/2024
Date Reported: 11/25/2024
Date Tested: 11/18/2024

Pathogens — PASS

Microbiological screening utilizing qPCR (SOP-204-OA) | Test ID: #49727

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
11/25/2024

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Certificate of Analysis

Client Name: Birdland
License Number: CLTV-0235

Sample ID: VT15649
Sample Name: HL: GMOB, GNUT, CG
Sample Lot: HL-CLTV0235-3
Sample Matrix: Flower
Date Received: 11/15/2024
Date Reported: 11/25/2024
Date Tested: 11/18/2024

Pesticides — Pass

Residual pesticide analysis utilizing Liquid Chromatography – Mass Spectrometry (LC-MSMS; SOP-070-OA) **- Limit units: ppm** | Test ID: #49977

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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Lab Director
11/25/2024

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