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Formerly Botanacor Labs

Official Compliance: Colorado
CERTIFICATE OF ANALYSIS

Prepared for:

AG-2211-CAL

Aspen Green

Batch ID or Lot Number:	Test:	Reported:	Location:
LB-O-60327	**Potency**	**11/7/22**	3700 Quebec St STE 100-110 Denver, CO 80207

Matrix:	Test ID:	Started:	USDA License:
Solution	T000226715	11/7/22	N/A

Status:	Method:	Received:	Sampler ID:
Active	TM14 (HPLC-DAD): Potency – Standard Cannabinoid Analysis	11/03/2022 @ 10:06 AM	N/A

CANNABINOID PROFILE

Compound	LOD (mg/mL)	LOQ (mg/mL)	Result (mg/mL)	Result (mg/g)
Delta 9-Tetrahydrocannabinolic acid (THCA-A)	0.170	0.492	ND	ND
Delta 9-Tetrahydrocannabinol (Delta 9THC)	0.192	0.555	0.951	1.01
Cannabidiolic acid (CBDA)	0.178	0.583	<LOQ	<LOQ
Cannabidiol (CBD)	0.173	0.568	51.970	54.99
Delta 8-Tetrahydrocannabinol (Delta 8THC)	0.211	0.612	ND	ND
Cannabinolic Acid (CBNA)	0.121	0.350	ND	ND
Cannabinol (CBN)	0.055	0.160	0.414	0.44
Cannabigerolic acid (CBGA)	0.177	0.513	ND	ND
Cannabigerol (CBG)	0.042	0.123	0.873	0.92
Tetrahydrocannabivarinic Acid (THCVA)	0.150	0.434	ND	ND
Tetrahydrocannabivarin (THCV)	0.039	0.112	ND	ND
Cannabidivarinic Acid (CBDVA)	0.074	0.243	ND	ND
Cannabidivarin (CBDV)	0.041	0.134	<LOQ	<LOQ
Cannabichromenic Acid (CBCA)	0.068	0.198	ND	ND
Cannabichromene (CBC)	0.075	0.216	1.747	1.85
Total Cannabinoids			**55.955**	**59.21**
Total Potential THC**			0.951	1.01
Total Potential CBD**			51.970	54.99

Notes

Density = 0.945g/mL

Sam Smith
7-Nov-22
2:57 PM
PREPARED BY / DATE

Karen Winternheimer
7-Nov-22
3:01 PM
APPROVED BY / DATE

Definitions

% = % (w/w) = Percent (Weight of Analyte / Weight of Product)

** Total Potential THC/CBD is calculated using the following formulas to take into account the loss of a carboxyl group during decarboxylation step.

Total THC = THC + (THCa *(0.877)) and

Total CBD = CBD + (CBDa *(0.877))

Total Cannabinoids result reflects the absolute sum of all cannabinoids detected.

ND = None Detected (Defined by Dynamic Range of the method)

CDPHE Certified

Certificate #4329.02

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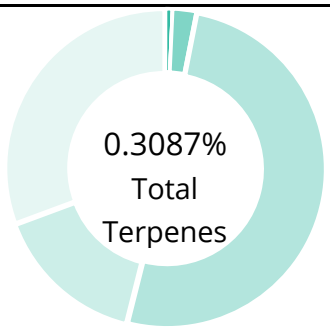
CERTIFICATE OF ANALYSIS

prepared for: Aspen Green
3700 Quebec St STE 100-110
Denver, CO 80207

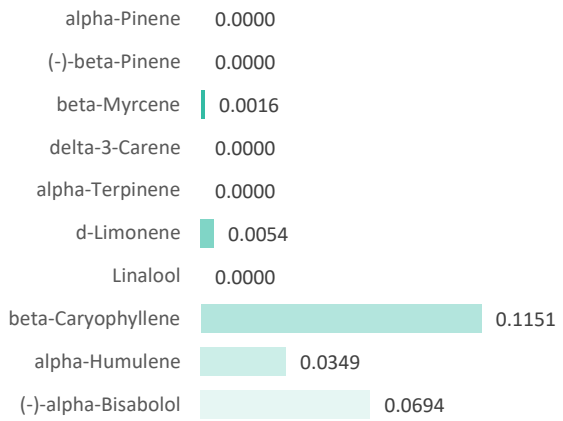
AG-2211-CAL

Batch ID:	LB-O-60327	**Test ID:**	T000228609
Type:	Concentrate	**Submitted:**	11/22/2022 @ 09:58 AM
Test:	Terpenes	**Started:**	11/25/2022
Method:	TM22 (GC-MS)	**Reported:**	11/28/2022

TERPENE PROFILE



PREDOMINANT TERPENES



Compound	%(w/w)	mg/g
(-)-alpha-Bisabolol	0.0694	0.694
Camphene	0.0000	0.000
delta-3-Carene	0.0000	0.000
beta-Caryophyllene	0.1151	1.151
(-)-Caryophyllene Oxide	0.0456	0.456
p-Cymene	0.0000	0.000
Eucalyptol	0.0007	0.007
Geraniol	0.0000	0.000
alpha-Humulene	0.0349	0.349
(-)-Isopulegol	0.0000	0.000
d-Limonene	0.0054	0.054
Linalool	0.0000	0.000
beta-Myrcene	0.0016	0.016
cis-Nerolidol	0.0299	0.299
trans-Nerolidol	0.0061	0.061
Ocimene	0.0000	0.000
beta-Ocimene	0.0000	0.000
alpha-Pinene	0.0000	0.000
(-)-beta-Pinene	0.0000	0.000
alpha-Terpinene	0.0000	0.000
gamma-Terpinene	0.0000	0.000
Terpinolene	0.0000	0.000
	0.3087	**3.087**

NOTES:
N/A

FINAL APPROVAL

Samantha Smith
Sam Smith
28-Nov-2022
3:42 PM
PREPARED BY / DATE

K Winternheimer
Karen Winternheimer
28-Nov-2022
3:45 PM
APPROVED BY / DATE

Testing results are based solely upon the sample submitted to SC Laboratories, Inc. SC Laboratories, Inc warrants that all analytical work is conducted professionally in accordance with all applicable standard laboratory practices using validated methods. Data was generated using an unbroken chain of comparison to NIST traceable Reference Standards and Certified Reference Materials. All decision rulings are in accordance with the MED and results uploaded to METRC. This report may not be reproduced, except in full, without the written approval of SC Laboratories, Inc. ISO/IEC 17025:2017 Accredited A2LA Certificate Number 4329.01

Certificate #4329.02

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CERTIFICATE OF ANALYSIS

Prepared for:

AG-2211-CAL

Aspen Green

Batch ID or Lot Number:	Test:	Reported:	Location:
LB-O-60327	**Pesticides**	**11/10/22**	3700 Quebec St STE 100-110 Denver, CO 80207

Matrix:	Test ID:	Started:	USDA License:
Concentrate	T000226716	11/9/22	N/A

Status:	Method:	Received:	Sampler ID:
N/A	TM17(LC-QQQ LC MS/MS):	11/03/2022 @ 10:06 AM	N/A

PESTICIDE DETERMINATION

Compound	LOQ (ppb)	Result (ppb)	Compound	LOQ (ppb)	Result (ppb)	Compound	LOQ (ppb)	Result (ppb)
Acephate	40	ND	**Fenoxycarb**	41	ND	**Paclobutrazol**	41	ND
Acetamiprid	37	ND	**Fipronil**	31	ND	**Permethrin**	276	ND
Abamectin	257	ND	**Flonicamid**	42	ND	**Phosmet**	42	ND
Azoxystrobin	41	ND	**Fludioxonil**	298	ND	**Prophos**	275	ND
Bifenazate	41	ND	**Hexythiazox**	41	ND	**Propoxur**	40	ND
Boscalid	33	ND	**Imazalil**	265	ND	**Pyridaben**	281	ND
Carbaryl	38	ND	**Imidacloprid**	43	ND	**Spinosad A**	32	ND
Carbofuran	40	ND	**Kresoxim-methyl**	150	ND	**Spinosad D**	46	ND
Chlorantraniliprole	43	ND	**Malathion**	285	ND	**Spiromesifen**	257	ND
Chlorpyrifos	500	ND	**Metalaxyl**	40	ND	**Spirotetramat**	265	ND
Clofentezine	270	ND	**Methiocarb**	39	ND	**Spiroxamine 1**	18	ND
Diazinon	281	ND	**Methomyl**	36	ND	**Spiroxamine 2**	22	ND
Dichlorvos	281	ND	**MGK 264 1**	164	ND	**Tebuconazole**	279	ND
Dimethoate	38	ND	**MGK 264 2**	105	ND	**Thiacloprid**	40	ND
E-Fenpyroximate	272	ND	**Myclobutanil**	13	ND	**Thiamethoxam**	36	ND
Etofenprox	40	ND	**Naled**	53	ND	**Trifloxystrobin**	42	ND
Etoxazole	284	ND	**Oxamyl**	1500	ND			

Karen Winternheimer
11/10/2022
12:28:00 PM

PREPARED BY / DATE

Sam Smith
11/10/2022
12:30:00 PM

APPROVED BY / DATE

Definitions

LOQ = Limit of Quantification

ppb = Parts per Billion

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botanacor

CERTIFICATE OF ANALYSIS

Prepared for:

AG-2211-CAL

Aspen Green

Batch ID or Lot Number:	Test:	Reported:	Location:
LB-O-60327	**Metals**	**11/7/22**	3700 Quebec St STE 100-110 Denver, CO 80207

Matrix:	Test ID:	Started:	USDA License:
Other	T000226718	11/4/22	N/A

Status:	Method:	Received:	Sampler ID:
Active	TM19 (ICP-MS): Heavy Metals	11/03/2022 @ 10:06 AM	N/A

HEAVY METALS DETERMINATION

Compound	Dynamic Range (ppm)	Result (ppm)
Arsenic	0.042 - 4.23	ND
Cadmium	0.041 - 4.13	ND
Mercury	0.041 - 4.11	ND
Lead	0.040 - 4.05	ND

Notes

Samantha Smith
Sam Smith
7-Nov-22
9:00 AM

PREPARED BY / DATE

K Winternheimer
Karen Winternheimer
7-Nov-22
9:04 AM

APPROVED BY / DATE

Definitions

ND = None Detected (Defined by Dynamic Range of the method)

Testing results are based solely upon the sample submitted to Botanacor Laboratories, LLC, in the condition it was received. Botanacor Laboratories, LLC warrants that all analytical work is conducted professionally in accordance with all applicable standard laboratory practices using validated methods. Data was generated using an unbroken chain of comparison to NIST traceable Reference Standards and Certified Reference Materials. This report may not be reproduced, except in full, without the written approval of Botanacor Laboratories, LLC.

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Prepared for:

AG-2211-CAL

Aspen Green

Batch ID or Lot Number:	Test:	Reported:	Location:
LB-O-60327	**Microbial Contaminants**	**11/7/22**	3700 Quebec St STE 100-110 Denver, CO 80207

Matrix:	Test ID:	Started:	USDA License:
General/Other	T000226717	11/3/22	N/A

Status:	Methods:	Received:	Sampler ID:
Active	TM25 (qPCR) TM24, TM26, TM27(Culture Plating): Microbial	11/03/2022 @ 10:06 AM	N/A

MICROBIAL CONTAMINANTS DETERMINATION

Contaminant	Method	LOD	QUANTITATION RANGE	Result
Total Aerobic Count*	TM-26, Culture Plating	10^2 CFU/g	2.0x10^3 - 3.0x10^5 CFU/g	None Detected
Total Coliforms*	TM-27, Culture Plating	10^1 CFU/g	1.0x10^2 - 1.5x10^4 CFU/g	None Detected
Total Yeast and Mold*	TM-24, Culture Plating	10^1 CFU/g	2.0x10^2 - 3.0x10^4 CFU/g	None Detected
STEC	TM-25, PCR	10^0 CFU/25 g	N/A	Absent
Salmonella	TM-25, PCR	10^0 CFU/25 g	N/A	Absent

Notes

Free from visual mold, mildew, and foreign matter

Brianne Maillot
11/7/2022
10:43:00 AM
PREPARED BY / DATE

Eden Thompson-Wright
11/7/2022
3:00:00 PM
APPROVED BY / DATE

Definitions

LOD = Limit of Detection | LLOQ = Lower Limit of Quantitation | ULOQ = Upper Limit of Quantitation
CFU/g = Colony Forming Units per Gram | STEC = Shiga Toxin-Producing *E. coli*
* Values recorded in scientific notation, a common microbial practice of expressing numbers that are too large to be conveniently written in decimal form.

Examples:
10^2 = 100 CFU
10^3 = 1,000 CFU
10^4 = 10,000 CFU
10^5 = 100,000 CFU

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CERTIFICATE OF ANALYSIS

Prepared for:

AG-2211-CAL

Aspen Green

Batch ID or Lot Number:	Test:	Reported:	Location:
LB-O-60327	**Mycotoxins**	**11/9/22**	3700 Quebec St STE 100-110 Denver, CO 80207

Matrix:	Test ID:	Started:	USDA License:
Concentrate	T000226720	11/8/22	N/A

Status:	Method:	Received:	Sampler ID:
Active	TM18 (UHPLC-QQQ LCMS/MS): Mycotoxins	11/03/2022 @ 10:06 AM	N/A

MYCOTOXIN DETERMINATION

Compound	Dynamic Range (ppb)	Result (ppb)
Ochratoxin A	3.8 - 124.4	ND
Aflatoxin B1	0.9 - 30.9	ND
Aflatoxin B2	0.9 - 31.1	ND
Aflatoxin G1	1 - 31.3	ND
Aflatoxin G2	1 - 31.7	ND
Total Aflatoxins (B1, B2, G1, and G2)		ND

Notes

N/A

Sam Smith
9-Nov-22
7:30 AM
PREPARED BY / DATE

Karen Winternheimer
9-Nov-22
7:36 AM
APPROVED BY / DATE

Definitions

ND = None Detected (Defined by Dynamic Range of the method)

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CERTIFICATE OF ANALYSIS

Prepared for:

AG-2211-CAL

Aspen Green

Batch ID or Lot Number:	Test:	Reported:	Location:
LB-O-60327	**Residual Solvents**	**11/9/22**	3700 Quebec St STE 100-110 Denver, CO 80207

Matrix:	Test ID:	Started:	USDA License:
N/A	T000226719	11/9/22	N/A

Status:	Methods:	Received:	Sampler ID:
Active	TM04 (GC-MS): Residual Solvents	11/03/2022 @ 10:06 AM	N/A

RESIDUAL SOLVENTS DETERMINATION

Solvent	Dynamic Range (ppm)	Result (ppm)
Propane	82 - 1644	*ND
Butanes (Isobutane, n-Butane)	163 - 3258	*ND
Methanol	55 - 1098	*ND
Pentane	92 - 1834	*ND
Ethanol	91 - 1812	*ND
Acetone	93 - 1858	*ND
Isopropyl Alcohol	100 - 1998	*ND
Hexane	6 - 112	*ND
Ethyl Acetate	95 - 1895	*ND
Benzene	0.2 - 3.9	*ND
Heptanes	96 - 1923	*ND
Toluene	17 - 333	*ND
Xylenes (m,p,o-Xylenes)	122 - 2434	*ND

Notes

Sam Smith
9-Nov-22
1:56 PM
PREPARED BY / DATE

Karen Winternheimer
9-Nov-22
1:57 PM
APPROVED BY / DATE

Definitions

* ND = None Detected (Defined by Dynamic Range of the method)

Testing results are based solely upon the sample submitted to SC Laboratories, Inc. SC Laboratories, Inc warrants that all analytical work is conducted professionally in accordance with all applicable standard laboratory practices using validated methods. Data was generated using an unbroken chain of comparison to NIST traceable Reference Standards and Certified Reference Materials. All decision rulings are in accordance with the MED and results uploaded to METRC. This report may not be reproduced, except in full, without the written approval of SC Laboratories, Inc. ISO/IEC 17025:2017 Accredited A2LA Certificate Number 4329.01

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