

Prepared for:

AG-2211-RTB

Aspen Green

Batch ID or Lot Number: LB-O-60326	Test: Potency	Reported: 11/7/22	Location: 3700 Quebec St STE 100-110 Denver, CO 80207
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Matrix: Solution	Test ID: T000226703	Started: 11/7/22	USDA License: N/A
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Status: Active	Method: TM14 (HPLC-DAD): Potency - Standard Cannabinoid Analysis	Received: 11/03/2022 @ 10:06 AM	Sampler ID: N/A
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CANNABINOID PROFILE

Compound	LOD (mg/mL)	LOQ (mg/mL)	Result (mg/mL)	Result (mg/g)
Delta 9-Tetrahydrocannabinolic acid (THCA-A)	0.420	1.216	ND	ND
Delta 9-Tetrahydrocannabinol (Delta 9THC)	0.474	1.372	2.516	2.66
Cannabidiolic acid (CBDA)	0.439	1.440	<LOQ	<LOQ
Cannabidiol (CBD)	0.428	1.404	137.729	145.74
Delta 8-Tetrahydrocannabinol (Delta 8THC)	0.522	1.511	ND	ND
Cannabinolic Acid (CBNA)	0.299	0.865	ND	ND
Cannabinol (CBN)	0.137	0.396	1.116	1.18
Cannabigerolic acid (CBGA)	0.438	1.268	ND	ND
Cannabigerol (CBG)	0.105	0.303	2.334	2.47
Tetrahydrocannabivarinic Acid (THCVA)	0.370	1.073	ND	ND
Tetrahydrocannabivarin (THCV)	0.095	0.276	ND	ND
Cannabidivarinic Acid (CBDVA)	0.183	0.601	ND	ND
Cannabidivarin (CBDV)	0.101	0.332	<LOQ	<LOQ
Cannabichromenic Acid (CBCA)	0.169	0.489	ND	ND
Cannabichromene (CBC)	0.185	0.534	4.677	4.95
Total Cannabinoids			148.372	157.00
Total Potential THC**			2.516	2.66
Total Potential CBD**			137.729	145.74

Notes

Density = 0.945g/mL

Sam Smith
7-Nov-22
2:57 PM

PREPARED BY / DATE

K 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)

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CDPHE Certified

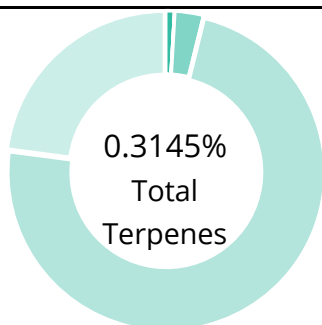


Certificate #4329.02

AG-2211-RTB

Batch ID:	LB-O-60326	Test ID:	T000228607
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

alpha-Pinene	0.0000
(-)-beta-Pinene	0.0000
beta-Myrcene	0.0022
delta-3-Carene	0.0000
alpha-Terpinene	0.0000
d-Limonene	0.0070
Linalool	0.0000
beta-Caryophyllene	0.1750
alpha-Humulene	0.0548
(-)-alpha-Bisabolol	0.0000

Compound	%(w/w)	mg/g
(-)-alpha-Bisabolol	0.0000	0.000
Camphene	0.0000	0.000
delta-3-Carene	0.0000	0.000
beta-Caryophyllene	0.1750	1.750
(-)-Caryophyllene Oxide	0.0744	0.744
p-Cymene	0.0000	0.000
Eucalyptol	0.0011	0.011
Geraniol	0.0000	0.000
alpha-Humulene	0.0548	0.548
(-)-Isopulegol	0.0000	0.000
d-Limonene	0.0070	0.070
Linalool	0.0000	0.000
beta-Myrcene	0.0022	0.022
cis-Nerolidol	0.0000	0.000
trans-Nerolidol	0.0000	0.000
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
Total	0.3145	3.145

NOTES:

N/A

FINAL APPROVAL

Sam Smith

Sam Smith
28-Nov-2022
3:42 PM

K Winterheimer

Karen Winterheimer
28-Nov-2022
3:45 PM

PREPARED BY / DATE

APPROVED BY / DATE

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Certificate #4329.02

Prepared for:

AG-2211-RTB

Aspen Green

Batch ID or Lot Number: LB-O-60326	Test: Pesticides	Reported: 11/10/22	Location: 3700 Quebec St STE 100-110 Denver, CO 80207
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Matrix: Concentrate	Test ID: T000226704	Started: 11/9/22	USDA License: N/A
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Status: N/A	Method: TM17(LC-QQQ LC MS/MS):	Received: 11/03/2022 @ 10:06 AM	Sampler ID: N/A
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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			

K Winterheimer
Karen Winterheimer
11/10/2022
12:28:00 PM

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

PREPARED BY / DATE

APPROVED BY / DATE

Definitions

LOQ = Limit of Quantification
ppb = Parts per Billion

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Certificate #4329.02


Prepared for:

AG-2211-RTB**Aspen Green**


Batch ID or Lot Number: LB-O-60326	Test: Metals	Reported: 11/7/22	Location: 3700 Quebec St STE 100-110 Denver, CO 80207
Matrix: Other	Test ID: T000226706	Started: 11/4/22	USDA License: N/A
Status: Active	Method: TM19 (ICP-MS): Heavy Metals	Received: 11/03/2022 @ 10:06 AM	Sampler ID: N/A

HEAVY METALS DETERMINATION

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

 Sam Smith
7-Nov-22
9:00 AM

PREPARED BY / DATE

 Karen Winterheimer
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.



Certificate #4329.02

Prepared for:

AG-2211-RTB

Aspen Green


Batch ID or Lot Number: LB-O-60326	Test: Microbial Contaminants	Reported: 11/7/22	Location: 3700 Quebec St STE 100-110 Denver, CO 80207
Matrix: General/Other	Test ID: T000226705	Started: 11/3/22	USDA License: N/A
Status: Active	Methods: TM25 (qPCR) TM24, TM26, TM27(Culture Plating): Microbial	Received: 11/03/2022 @ 10:06 AM	Sampler ID: N/A

MICROBIAL CONTAMINANTS DETERMINATION

Contaminant	Method	LOD	QUANTITATION RANGE	Result	Notes
Total Aerobic Count*	TM-26, Culture Plating	10 ² CFU/g	2.0x10 ³ - 3.0x10 ⁵ CFU/g	None Detected	Free from visual mold, mildew, and foreign matter
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	

 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: 10² = 100 CFU
10³ = 1,000 CFU
10⁴ = 10,000 CFU
10⁵ = 100,000 CFU

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CDPHE Certified



Certificate #4329.02

Prepared for:

AG-2211-RTB

Aspen Green

Batch ID or Lot Number: LB-O-60326	Test: Mycotoxins	Reported: 11/9/22	Location: 3700 Quebec St STE 100-110 Denver, CO 80207
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Matrix: Concentrate	Test ID: T000226708	Started: 11/8/22	USDA License: N/A
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Status: Active	Method: TM18 (UHPLC-QQQ LCMS/MS): Mycotoxins	Received: 11/03/2022 @ 10:06 AM	Sampler ID: N/A
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MYCOTOXIN DETERMINATION

Compound	Dynamic Range (ppb)	Result (ppb)	Notes
Ochratoxin A	4 - 132.1	ND	N/A
Aflatoxin B1	0.9 - 32.8	ND	
Aflatoxin B2	0.9 - 33	ND	
Aflatoxin G1	1 - 33.2	ND	
Aflatoxin G2	1 - 33.6	ND	
Total Aflatoxins (B1, B2, G1, and G2)		ND	

Samantha Smith

Sam Smith
9-Nov-22
7:30 AM

PREPARED BY / DATE

K Winterheimer

Karen Winterheimer
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 #4329.02

Prepared for:


AG-2211-RTB

Aspen Green


Batch ID or Lot Number: LB-O-60326	Test: Residual Solvents	Reported: 11/9/22	Location: 3700 Quebec St STE 100-110 Denver, CO 80207
Matrix: N/A	Test ID: T000226707	Started: 11/9/22	USDA License: N/A
Status: Active	Methods: TM04 (GC-MS): Residual Solvents	Received: 11/03/2022 @ 10:06 AM	Sampler ID: N/A

RESIDUAL SOLVENTS DETERMINATION

Solvent	Dynamic Range (ppm)	Result (ppm)	Notes
Propane	87 - 1743	*ND	
Butanes (Isobutane, n-Butane)	173 - 3455	*ND	
Methanol	58 - 1165	*ND	
Pentane	97 - 1945	*ND	
Ethanol	96 - 1921	*ND	
Acetone	99 - 1970	*ND	
Isopropyl Alcohol	106 - 2119	*ND	
Hexane	6 - 119	*ND	
Ethyl Acetate	101 - 2010	*ND	
Benzene	0.2 - 4.2	*ND	
Heptanes	102 - 2040	*ND	
Toluene	18 - 353	*ND	
Xylenes (m,p,o-Xylenes)	129 - 2582	*ND	

 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)

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