

Prepared for:

AG-RIO-2312

Aspen Green

Batch ID or Lot Number: LB-O-60506	Test: Potency	Reported: 12/10/23	Location: 3700 Quebec St STE 100-110 Denver, CO 80207
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Matrix: Unit	Test ID: T000264277	Started: 12/8/23	USDA License: N/A
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Status: Active	Method: TM14 (HPLC-DAD): Potency - Standard Cannabinoid Analysis	Received: 12/07/2023 @ 11:00 AM	Sampler ID: N/A
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CANNABINOID PROFILE

Compound	LOD (mg)	LOQ (mg)	Result (mg)	Result (mg/g)	Notes
Delta 9-Tetrahydrocannabinolic acid (THCA-A)	7.906	26.006	ND	ND	# of Servings = 1 Sample Weight=28.4g
Delta 9-Tetrahydrocannabinol (Delta 9THC)	8.924	29.352	75.942	2.67	
Cannabidiolic acid (CBDA)	9.589	29.518	<LOQ	<LOQ	
Cannabidiol (CBD)	9.349	28.780	1996.694	70.31	
Delta 8-Tetrahydrocannabinol (Delta 8THC)	9.826	32.320	ND	ND	
Cannabinolic Acid (CBNA)	5.627	18.509	ND	ND	
Cannabinol (CBN)	2.574	8.466	<LOQ	<LOQ	
Cannabigerolic acid (CBGA)	8.248	27.129	ND	ND	
Cannabigerol (CBG)	1.973	6.490	84.256	2.97	
Tetrahydrocannabivarinic Acid (THCVA)	6.974	22.939	ND	ND	
Tetrahydrocannabivarin (THCV)	1.795	5.903	50.012	1.76	
Cannabidivarinic Acid (CBDVA)	4.000	12.314	12.256	0.43	
Cannabidivarin (CBDV)	2.211	6.807	968.909	34.12	
Cannabichromenic Acid (CBCA)	3.178	10.454	ND	ND	
Cannabichromene (CBC)	3.475	11.430	90.869	3.20	
Total Cannabinoids			3278.938	115.46	
Total Potential THC**			75.942	2.67	
Total Potential CBD**			1996.694	70.31	

K Winterheimer
Karen Winterheimer
10-Dec-23
10:29 AM

Samantha Smith
Sam Smith
10-Dec-23
10:30 AM

PREPARED BY / DATE

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

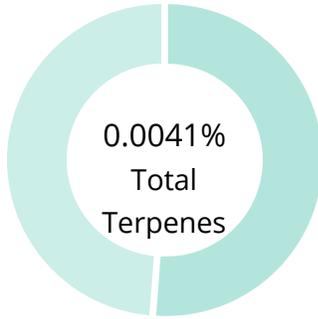


Certificate #4329.02

AG-RIO-2312

Batch ID:	LB-O-60506	Test ID:	T000265198
Type:	Concentrate	Submitted:	12/18/2023 @ 02:36 PM
Test:	Terpenes	Started:	12/18/2023
Method:	TM22 (GC-MS)	Reported:	12/20/2023

TERPENE PROFILE



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	0.0021	0.021
(-)-Caryophyllene Oxide	0.0000	0.000
p-Cymene	0.0000	0.000
Eucalyptol	0.0000	0.000
Geraniol	0.0000	0.000
alpha-Humulene	0.0020	0.020
(-)-Isopulegol	0.0000	0.000
d-Limonene	0.0000	0.000
Linalool	0.0000	0.000
beta-Myrcene	0.0000	0.000
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
	0.0041	0.041

PREDOMINANT TERPENES

alpha-Pinene	0.0000
(-)-beta-Pinene	0.0000
beta-Myrcene	0.0000
delta-3-Carene	0.0000
alpha-Terpinene	0.0000
d-Limonene	0.0000
Linalool	0.0000
beta-Caryophyllene	0.0021
alpha-Humulene	0.0020
(-)-alpha-Bisabolol	0.0000

NOTES:

N/A

FINAL APPROVAL

K Winternheimer
Karen Winternheimer
20-Dec-2023
11:01 AM

Samantha Smith
Sam Smith
20-Dec-2023
11:04 AM

PREPARED BY / DATE

APPROVED BY / DATE

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Certificate #4329.02

Prepared for:

AG-RIO-2312

Aspen Green

Batch ID or Lot Number: **LB-O-60506** Test: **Pesticides** Reported: **12/13/23** Location: 3700 Quebec St STE 100-110
Denver, CO 80207

Matrix: Concentrate Test ID: T000264278 Started: 12/12/23 USDA License: N/A

Status: N/A Method: TM17(LC-QQQ LC MS/MS): Received: 12/07/2023 @ 11:00 AM Sampler ID: N/A

PESTICIDE DETERMINATION

Compound	LOQ (ppb)	Result (ppb)	Compound	LOQ (ppb)	Result (ppb)	Compound	LOQ (ppb)	Result (ppb)
Acephate	40	ND	Fenoxycarb	22	ND	Paclobutrazol	41	ND
Acetamiprid	43	ND	Fipronil	53	ND	Permethrin	299	ND
Abamectin	369	ND	Flonicamid	45	ND	Phosmet	42	ND
Azoxystrobin	45	ND	Fludioxonil	302	ND	Prophos	295	ND
Bifenazate	38	ND	Hexythiazox	40	ND	Propoxur	44	ND
Boscalid	46	ND	Imazalil	264	ND	Pyridaben	310	ND
Carbaryl	43	ND	Imidacloprid	40	ND	Spinosad A	34	ND
Carbofuran	45	ND	Kresoxim-methyl	150	ND	Spinosad D	73	ND
Chlorantraniliprole	43	ND	Malathion	300	ND	Spiromesifen	249	ND
Chlorpyrifos	500	ND	Metalaxyl	42	ND	Spirotetramat	282	ND
Clofentezine	291	ND	Methiocarb	38	ND	Spiroxamine 1	16	ND
Diazinon	288	ND	Methomyl	41	ND	Spiroxamine 2	24	ND
Dichlorvos	276	ND	MGK 264 1	156	ND	Tebuconazole	297	ND
Dimethoate	41	ND	MGK 264 2	109	ND	Thiacloprid	43	ND
E-Fenpyroximate	292	ND	Myclobutanil	52	ND	Thiamethoxam	44	ND
Etofenprox	43	ND	Naled	48	ND	Trifloxystrobin	46	ND
Etoxazole	290	ND	Oxamyl	1500	ND			

K Winternheimer Karen Winternheimer
12/13/2023
9:05:00 AM

Samantha Smith Sam Smith
12/13/2023
9:07:00 AM

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-RIO-2312
Aspen Green

Batch ID or Lot Number: LB-O-60506	Test: Metals	Reported: 12/11/23	Location: 3700 Quebec St STE 100-110 Denver, CO 80207
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Matrix: Concentrate	Test ID: T000264280	Started: 12/11/23	USDA License: N/A
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Status: Active	Method: TM19 (ICP-MS): Heavy Metals	Received: 12/07/2023 @ 11:00 AM	Sampler ID: N/A
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HEAVY METALS DETERMINATION

Compound	Dynamic Range (ppm)	Result (ppm)	Notes
Arsenic	0.044 - 4.38	ND	
Cadmium	0.043 - 4.34	ND	
Mercury	0.044 - 4.37	ND	
Lead	0.046 - 4.62	ND	


 Sam Smith
 11-Dec-23
 2:43 PM

PREPARED BY / DATE


 Karen Winterheimer
 11-Dec-23
 2:48 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 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-RIO-2312

Aspen Green

Batch ID or Lot Number: LB-O-60506	Test: Microbial Contaminants	Reported: 12/11/23	Location: 3700 Quebec St STE 100-110 Denver, CO 80207
Matrix: Finished Product	Test ID: T000264279	Started: 12/7/23	USDA License: N/A
Status: Active	Methods: TM25 (qPCR) TM24, TM26, TM27(Culture Plating): Microbial	Received: 12/07/2023 @ 11:00 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	

Eden Thompson
Eden Thompson-Wright
12/11/2023
9:59:00 AM

Brett Hudson
Brett Hudson
12/11/2023
11:04:00 AM

PREPARED BY / DATE

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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Certificate #4329.02

Prepared for:

AG-RIO-2312

Aspen Green

Batch ID or Lot Number: LB-O-60506	Test: Mycotoxins	Reported: 12/15/23	Location: 3700 Quebec St STE 100-110 Denver, CO 80207
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Matrix: Concentrate	Test ID: T000264282	Started: 12/13/23	USDA License: N/A
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Status: Active	Method: TM18 (UHPLC-QQQ LCMS/MS): Mycotoxins	Received: 12/07/2023 @ 11:00 AM	Sampler ID: N/A
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MYCOTOXIN DETERMINATION

Compound	Dynamic Range (ppb)	Result (ppb)	Notes
Ochratoxin A	3.3 - 123.2	ND	N/A
Aflatoxin B1	1.3 - 31.3	ND	
Aflatoxin B2	1.4 - 31	ND	
Aflatoxin G1	1.3 - 31.3	ND	
Aflatoxin G2	1.4 - 31.8	ND	
Total Aflatoxins (B1, B2, G1, and G2)		ND	


 Sam Smith
 15-Dec-23
 6:47 AM


 Karen Winterheimer
 15-Dec-23
 11:32 AM

PREPARED BY / DATE

APPROVED BY / DATE

Definitions

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

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Certificate #4329.02

Prepared for:

AG-RIO-2312

Aspen Green

Batch ID or Lot Number: LB-O-60506	Test: Residual Solvents	Reported: 12/8/23	Location: 3700 Quebec St STE 100-110 Denver, CO 80207
Matrix: N/A	Test ID: T000264281	Started: 12/8/23	USDA License: N/A
Status: Active	Methods: TM04 (GC-MS): Residual Solvents	Received: 12/07/2023 @ 11:00 AM	Sampler ID: N/A

RESIDUAL SOLVENTS DETERMINATION

Solvent	Dynamic Range (ppm)	Result (ppm)	Notes
Propane	118 - 2356	*ND	
Butanes (Isobutane, n-Butane)	222 - 4448	*ND	
Methanol	66 - 1326	*ND	
Pentane	113 - 2257	*ND	
Ethanol	107 - 2131	*ND	
Acetone	108 - 2152	*ND	
Isopropyl Alcohol	108 - 2167	*ND	
Hexane	7 - 137	*ND	
Ethyl Acetate	109 - 2180	*ND	
Benzene	0.2 - 4.3	*ND	
Heptanes	110 - 2197	*ND	
Toluene	19 - 374	*ND	
Xylenes (m,p,o-Xylenes)	130 - 2608	*ND	

 Karen Winternheimer
8-Dec-23
1:56 PM

 Sam Smith
8-Dec-23
2:04 PM

PREPARED BY / DATE

APPROVED BY / DATE

Definitions

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

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