

Prepared for:
Aspen Green

3700 Quebec St
Denver, CO USA 80207

LB-O-60446

Batch ID or Lot Number: AG-2308-RTB	Test, Test ID and Methods: Various	Matrix: Unit	Page 1 of 6
Reported: 04Aug2023	Started: 02Aug2023	Received: 02Aug2023	


Cannabinoids


Test ID: T000251406

Methods: TM14 (HPLC-DAD)

	LOD (mg)	LOQ (mg)	Result (mg)	Result (mg/g)	Notes
Cannabichromene (CBC)	4.673	17.657	138.890	4.90	# of Servings = 1, Sample Weight=28.4g
Cannabichromenic Acid (CBCA)	4.274	16.151	ND	ND	
Cannabidiol (CBD)	16.358	47.082	3816.450	134.40	
Cannabidiolic Acid (CBDA)	16.777	48.290	<LOQ	<LOQ	
Cannabidivarin (CBDV)	3.869	11.135	31.890	1.10	
Cannabidivarinic Acid (CBDVA)	6.999	20.144	ND	ND	
Cannabigerol (CBG)	2.653	10.025	82.040	2.90	
Cannabigerolic Acid (CBGA)	11.091	41.910	ND	ND	
Cannabinol (CBN)	3.461	13.079	33.140	1.20	
Cannabinolic Acid (CBNA)	7.567	28.594	ND	ND	
Delta 8-Tetrahydrocannabinol (Delta 8-THC)	13.214	49.930	ND	ND	
Delta 9-Tetrahydrocannabinol (Delta 9-THC)	12.001	45.345	66.390	2.30	
Delta 9-Tetrahydrocannabinolic Acid (THCA-A)	10.632	40.176	ND	ND	
Tetrahydrocannabivarin (THCV)	2.413	9.119	ND	ND	
Tetrahydrocannabivarinic Acid (THCVA)	9.378	35.437	ND	ND	
Total Cannabinoids			4168.800	146.80	
Total Potential THC			66.390	2.30	
Total Potential CBD			3816.450	134.40	

Final Approval


 Karen Winternheimer
 04Aug2023
 12:26:00 PM MDT
 PREPARED BY / DATE


 Sam Smith
 04Aug2023
 12:27:00 PM MDT
 APPROVED BY / DATE

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Residual Solvents


Test ID: T000251411

Methods: TM04 (GC-MS): Residual

Solvents	Dynamic Range (ppm)	Result (ppm)	Notes
Propane	108 - 2154	ND	
Butanes (Isobutane, n-Butane)	211 - 4215	ND	
Methanol	66 - 1329	ND	
Pentane	107 - 2137	ND	
Ethanol	106 - 2123	ND	
Acetone	106 - 2120	ND	
Isopropyl Alcohol	111 - 2215	ND	
Hexane	6 - 130	ND	
Ethyl Acetate	108 - 2158	ND	
Benzene	0.2 - 4.5	ND	
Heptanes	107 - 2149	ND	
Toluene	19 - 385	ND	
Xylenes (m,p,o-Xylenes)	142 - 2841	ND	

Final Approval


Karen Winternheimer
06Aug2023
10:32:00 AM MDT
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Sam Smith
06Aug2023
10:36:00 AM MDT
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Microbial Contaminants

Test ID: T000251409

Methods: TM25 (PCR) TM24, TM26, TM27 (Culture Plating)

	Method	LOD	Quantitation Range	Result	Notes
STEC	TM25: PCR	10 ⁰ CFU/25g	NA	Absent	Free from visual mold, mildew, and foreign matter
<i>Salmonella</i>	TM25: PCR	10 ⁰ CFU/25g	NA	Absent	
Total Yeast and Mold*	TM24: Culture Plating	10 ¹ CFU/g	1.0x10 ² - 1.5x10 ⁴	None Detected	
Total Aerobic Count*	TM26: Culture Plating	10 ² CFU/g	1.0x10 ³ - 1.5x10 ⁵	None Detected	
Total Coliforms*	TM27: Culture Plating	10 ¹ CFU/g	1.0x10 ² - 1.5x10 ⁴	None Detected	

Final Approval


Brianne Maillot
06Aug2023
10:39:00 AM MDT
PREPARED BY / DATE


Eden Thompson-Wright
07Aug2023
09:39:00 AM MDT
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Heavy Metals


Test ID: T000251410

Methods: TM19 (ICP-MS): Heavy

Metals	Dynamic Range (ppm)	Result (ppm)	Notes
Arsenic	0.05 - 4.83	ND	
Cadmium	0.05 - 4.62	ND	
Mercury	0.05 - 4.52	ND	
Lead	0.04 - 4.40	ND	

Final Approval


Samantha Smith
08Aug2023
03:37:00 PM MDT
PREPARED BY / DATE


Karen Winternheimer
08Aug2023
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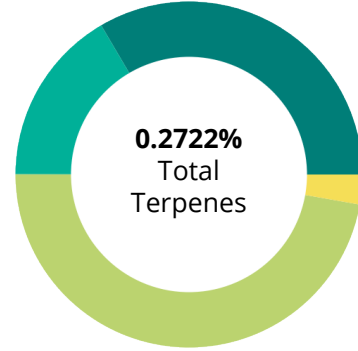
Batch ID or Lot Number: AG-2308-RTB	Test, Test ID and Methods: Various	Matrix: Unit	Page 4 of 6
Reported: 04Aug2023	Started: 02Aug2023	Received: 02Aug2023	

Terpenes

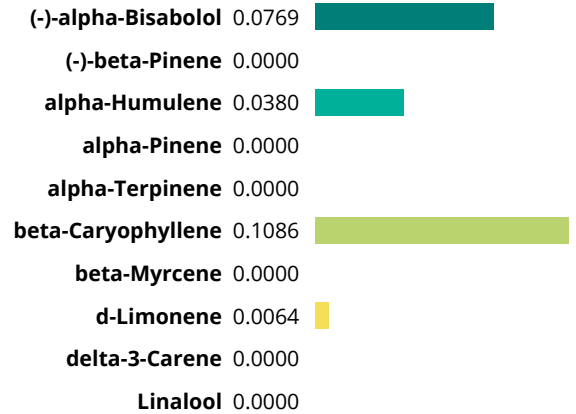
Test ID: T000251407

Methods: TM22 (GC-MS)

	%(w/w)	(mg/g)
(-)-alpha-Bisabolol	0.0769	0.769
(-)-beta-Pinene	0.0000	0.0000
(-)-Caryophyllene Oxide	0.0423	0.423
(-)-Isopulegol	0.0000	0.0000
alpha-Humulene	0.0380	0.380
alpha-Pinene	0.0000	0.0000
alpha-Terpinene	0.0000	0.0000
beta-Caryophyllene	0.1086	1.086
beta-Myrcene	0.0000	0.0000
beta-Ocimene	0.0000	0.0000
Camphene	0.0000	0.0000
cis-Nerolidol	0.0000	0.0000
d-Limonene	0.0064	0.064
delta-3-Carene	0.0000	0.0000
Eucalyptol	0.0000	0.000
gamma-Terpinene	0.0000	0.0000
Geraniol	0.0000	0.0000
Linalool	0.0000	0.0000
Ocimene	0.0000	0.0000
p-Cymene	0.0000	0.0000
Terpinolene	0.0000	0.0000
trans-Nerolidol	0.0000	0.0000
Total	0.2722	2.7220




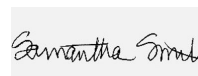
PREDOMINANT TERPENES



Notes

Final Approval


Karen Winternheimer
09Aug2023
08:21:00 AM MDT
PREPARED BY / DATE


Sam Smith
09Aug2023
08:24:00 AM MDT
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Pesticides


Test ID: T000251408

Methods: TM17

(LC-QQ LC MS/MS)	Dynamic Range (ppb)	Result (ppb)		Dynamic Range (ppb)	Result (ppb)	
Abamectin	359 - 2672	ND		Malathion	280 - 2745	ND
Acephate	42 - 2738	ND		Metalaxyl	39 - 2748	ND
Acetamiprid	40 - 2717	ND		Methiocarb	42 - 2682	ND
Azoxystrobin	41 - 2742	ND		Methomyl	40 - 2756	ND
Bifenazate	37 - 2749	ND		MGK 264 1	183 - 1683	ND
Boscalid	42 - 2706	ND		MGK 264 2	116 - 1071	ND
Carbaryl	38 - 2730	ND		Myclobutanil	26 - 2717	ND
Carbofuran	39 - 2713	ND		Naled	44 - 2783	ND
Chlorantraniliprole	37 - 2700	ND		Oxamyl	42 - 2744	ND
Chlorpyrifos	44 - 2773	ND		Paclobutrazol	40 - 2738	ND
Clofentezine	282 - 2718	ND		Permethrin	282 - 2786	ND
Diazinon	281 - 2755	ND		Phosmet	38 - 2733	ND
Dichlorvos	284 - 2779	ND		Prophos	302 - 2688	ND
Dimethoate	39 - 2701	ND		Propoxur	40 - 2711	ND
E-Fenpyroximate	285 - 2744	ND		Pyridaben	298 - 2729	ND
Etofenprox	41 - 2702	ND		Spinosad A	29 - 2102	ND
Etoxazole	300 - 2723	ND		Spinosad D	65 - 670	ND
Fenoxycarb	40 - 2752	ND		Spiromesifen	273 - 2741	ND
Fipronil	25 - 2763	ND		Spirotetramat	267 - 2765	ND
Flonicamid	51 - 2752	ND		Spiroxamine 1	17 - 1206	ND
Fludioxonil	268 - 2721	ND		Spiroxamine 2	21 - 1493	ND
Hexythiazox	38 - 2724	ND		Tebuconazole	275 - 2736	ND
Imazalil	278 - 2796	ND		Thiacloprid	41 - 2726	ND
Imidacloprid	39 - 2775	ND		Thiamethoxam	41 - 2759	ND
Kresoxim-methyl	38 - 2784	ND		Trifloxystrobin	42 - 2710	ND

Final Approval


Karen Winternheimer
10Aug2023
11:53:00 AM MDT
PREPARED BY / DATE


Sam Smith
10Aug2023
12:34:00 PM MDT
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Mycotoxins


Test ID: T000251412

Methods: TM18 (UHPLC-QQQ


LCMS/MS): Mycotoxins

	Dynamic Range (ppb)	Result (ppb)	Notes
Ochratoxin A	1.32 - 126.44	ND	N/A
Aflatoxin B1	0.94 - 32.62	ND	
Aflatoxin B2	1.01 - 32.71	ND	
Aflatoxin G1	0.94 - 32.68	ND	
Aflatoxin G2	1.73 - 32.74	ND	
Total Aflatoxins (B1, B2, G1, and G2)		ND	

Final Approval

 Sam Smith
11Aug2023
11:08:00 AM MDT

PREPARED BY / DATE

 Karen Winternheimer
11Aug2023
11:12:00 AM MDT

APPROVED BY / DATE



<https://results.botanacor.com/api/v1/coas/uuid/8c9087fe-b9ac-4dcb-9d59-1e7bbf5659df>

Definitions

LOD = Limit of Detection, ULOQ = Upper Limit of Quantitation, LLOQ = Lower Limit of Quantitation, PPB = Parts per Billion, % = % (w/w) = Percent (weight of analyte / weight of product). ND = None Detected (defined by dynamic range of the method). Total Potential Delta 9-THC or CBD is calculated to take into account the loss of a carboxyl group during decarboxylation step, using the following formulas: Total Potential Delta 9-THC = Delta 9-THC + (Delta 9-THCa *(0.877)) and Total CBD = CBD + (CBDa *(0.877)). Fail equates to a concentration level of Delta 9-THC, on a dry weight basis, higher than 0.3 percent + or - the measurement uncertainty. Total Potential THC 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)). ALOQ = Above Limit Of Quantitation (defined by dynamic range of the method), CFU/g = Colony Forming Units per Gram. 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.

Testing results are based solely upon the sample submitted to SC Laboratories, Inc., in the condition it was received. 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. This report may not be reproduced, except in full, without the written approval of SC Laboratories, Inc. ISO/IEC 17025:2017 A2LA Cert #: 4329.02 Chemical; 4329.03 Biological. Some tests listed on this COA may not be within our scope of A2LA accreditation. Please visit [A2LA for more details](#).



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