SC Labs®
Formerly Botanacor Labs

CERTIFICATE OF ANALYSIS

Prepared for:
Aspen Green
3700 Quebec St
Denver, CO USA 80207

LB-O-60433

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

Cannabinoids

Test ID: T000251399
Methods: TM14 (HPLC-DAD)

	LOD (mg)	**LOQ** (mg)	**Result** (mg)	**Result** (mg/g)	**Notes**
Cannabichromene (CBC)	1.378	5.207	54.850	1.90	# of Servings = 1, Sample Weight=28.4g
Cannabichromenic Acid (CBCA)	1.260	4.762	ND	ND	
Cannabidiol (CBD)	4.823	13.883	1540.840	54.30	
Cannabidiolic Acid (CBDA)	4.947	14.239	19.590	0.70	
Cannabidivarin (CBDV)	1.141	3.284	3.890	0.10	
Cannabidivarinic Acid (CBDVA)	2.064	5.940	ND	ND	
Cannabigerol (CBG)	0.782	2.956	31.530	1.10	
Cannabigerolic Acid (CBGA)	3.271	12.358	ND	ND	
Cannabinol (CBN)	1.021	3.857	<LOQ	<LOQ	
Cannabinolic Acid (CBNA)	2.231	8.432	ND	ND	
Delta 8-Tetrahydrocannabinol (Delta 8-THC)	3.896	14.723	ND	ND	
Delta 9-Tetrahydrocannabinol (Delta 9-THC)	3.539	13.371	53.190	1.90	
Delta 9-Tetrahydrocannabinolic Acid (THCA-A)	3.135	11.847	ND	ND	
Tetrahydrocannabivarin (THCV)	0.712	2.689	ND	ND	
Tetrahydrocannabivarinic Acid (THCVA)	2.765	10.449	ND	ND	
Total Cannabinoids			**1703.890**	**60.00**	
Total Potential THC			53.190	1.90	
Total Potential CBD			1558.020	54.91	

Final Approval

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

Sam Smith
04Aug2023
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Residual Solvents

Test ID: T000251404
Methods: TM04 (GC-MS): Residual Solvents

	Dynamic Range (ppm)	**Result** (ppm)	**Notes**
Propane	103 - 2053	ND	
Butanes (Isobutane, n-Butane)	201 - 4017	ND	
Methanol	63 - 1266	ND	
Pentane	102 - 2036	ND	
Ethanol	101 - 2024	ND	
Acetone	101 - 2021	ND	
Isopropyl Alcohol	106 - 2111	ND	
Hexane	6 - 124	ND	
Ethyl Acetate	103 - 2057	ND	
Benzene	0.2 - 4.3	ND	
Heptanes	102 - 2048	ND	
Toluene	18 - 367	ND	
Xylenes (m,p,o-Xylenes)	135 - 2707	ND	

Final Approval

Karen Winternheimer
06Aug2023
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Sam Smith
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Microbial Contaminants

Test ID: T000251402
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
Salmonella	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
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Eden Thompson-Wright
07Aug2023
09:39:00 AM MDT
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Heavy Metals

Test ID: T000251403
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

Sam Smith
08Aug2023
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Karen Winternheimer
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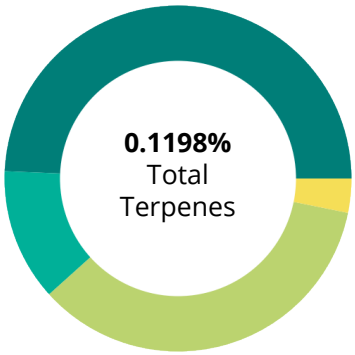
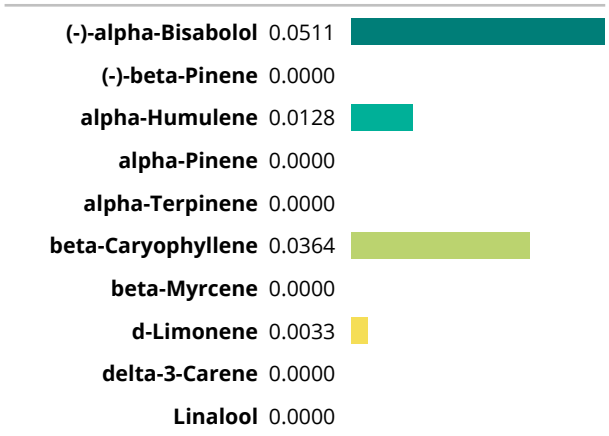
Terpenes

Test ID: T000251400

Methods: TM22 (GC-MS)	%(w/w)	(mg/g)
(-)-alpha-Bisabolol	0.0511	0.511
(-)-beta-Pinene	0.0000	0.0000
(-)-Caryophyllene Oxide	0.0138	0.138
(-)-Isopulegol	0.0000	0.0000
alpha-Humulene	0.0128	0.128
alpha-Pinene	0.0000	0.0000
alpha-Terpinene	0.0000	0.0000
beta-Caryophyllene	0.0364	0.364
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	0.0033	0.033
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	0.0024	0.024
	0.1198	**1.1980**



PREDOMINANT TERPENES



Notes

Final Approval

Karen Winternheimer
09Aug2023
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Sam Smith
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Pesticides

Test ID: T000251401
Methods: TM17

(LC-QQ LC MS/MS)	**Dynamic Range** (ppb)	**Result** (ppb)
Abamectin	359 - 2672	ND
Acephate	42 - 2738	ND
Acetamiprid	40 - 2717	ND
Azoxystrobin	41 - 2742	ND
Bifenazate	37 - 2749	ND
Boscalid	42 - 2706	ND
Carbaryl	38 - 2730	ND
Carbofuran	39 - 2713	ND
Chlorantraniliprole	37 - 2700	ND
Chlorpyrifos	44 - 2773	ND
Clofentezine	282 - 2718	ND
Diazinon	281 - 2755	ND
Dichlorvos	284 - 2779	ND
Dimethoate	39 - 2701	ND
E-Fenpyroximate	285 - 2744	ND
Etofenprox	41 - 2702	ND
Etoxazole	300 - 2723	ND
Fenoxycarb	40 - 2752	ND
Fipronil	25 - 2763	ND
Flonicamid	51 - 2752	ND
Fludioxonil	268 - 2721	ND
Hexythiazox	38 - 2724	ND
Imazalil	278 - 2796	ND
Imidacloprid	39 - 2775	ND
Kresoxim-methyl	38 - 2784	ND

	Dynamic Range (ppb)	**Result** (ppb)
Malathion	280 - 2745	ND
Metalaxyl	39 - 2748	ND
Methiocarb	42 - 2682	ND
Methomyl	40 - 2756	ND
MGK 264 1	183 - 1683	ND
MGK 264 2	116 - 1071	ND
Myclobutanil	26 - 2717	ND
Naled	44 - 2783	ND
Oxamyl	42 - 2744	ND
Paclobutrazol	40 - 2738	ND
Permethrin	282 - 2786	ND
Phosmet	38 - 2733	ND
Prophos	302 - 2688	ND
Propoxur	40 - 2711	ND
Pyridaben	298 - 2729	ND
Spinosad A	29 - 2102	ND
Spinosad D	65 - 670	ND
Spiromesifen	273 - 2741	ND
Spirotetramat	267 - 2765	ND
Spiroxamine 1	17 - 1206	ND
Spiroxamine 2	21 - 1493	ND
Tebuconazole	275 - 2736	ND
Thiacloprid	41 - 2726	ND
Thiamethoxam	41 - 2759	ND
Trifloxystrobin	42 - 2710	ND

Final Approval

Karen Winternheimer
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Sam Smith
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Mycotoxins

Test ID: T000251405
Methods: TM18 (UHPLC-QQQ LCMS/MS): Mycotoxins

	Dynamic Range (ppb)	**Result** (ppb)	**Notes**
Ochratoxin A	1.29 - 123.63	ND	N/A
Aflatoxin B1	0.92 - 31.89	ND	
Aflatoxin B2	0.99 - 31.98	ND	
Aflatoxin G1	0.92 - 31.95	ND	
Aflatoxin G2	1.69 - 32.01	ND	
Total Aflatoxins (B1, B2, G1, and G2)		ND	

Final Approval

Sam Smith
11Aug2023
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Karen Winternheimer
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https://results.botanacor.com/api/v1/coas/uuid/0c8a0780-e9a8-4d60-bd2f-881d78227008

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