SC Labs®
Formerly Botanacor Labs

CERTIFICATE OF ANALYSIS

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

LB-O-60447

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

Cannabinoids

Test ID: T000251413
Methods: TM14 (HPLC-DAD)

	LOD (mg)	**LOQ** (mg)	**Result** (mg)	**Result** (mg/g)	**Notes**
Cannabichromene (CBC)	4.948	18.695	140.600	5.00	# of Servings = 1, Sample Weight=28.4g
Cannabichromenic Acid (CBCA)	4.525	17.100	ND	ND	
Cannabidiol (CBD)	17.319	49.848	3877.500	136.50	
Cannabidiolic Acid (CBDA)	17.763	51.127	<LOQ	<LOQ	
Cannabidivarin (CBDV)	4.096	11.790	36.460	1.30	
Cannabidivarinic Acid (CBDVA)	7.410	21.328	ND	ND	
Cannabigerol (CBG)	2.809	10.614	81.450	2.90	
Cannabigerolic Acid (CBGA)	11.743	44.372	ND	ND	
Cannabinol (CBN)	3.665	13.847	33.710	1.20	
Cannabinolic Acid (CBNA)	8.012	30.274	ND	ND	
Delta 8-Tetrahydrocannabinol (Delta 8-THC)	13.990	52.863	ND	ND	
Delta 9-Tetrahydrocannabinol (Delta 9-THC)	12.706	48.010	65.720	2.30	
Delta 9-Tetrahydrocannabinolic Acid (THCA-A)	11.257	42.537	ND	ND	
Tetrahydrocannabivarin (THCV)	2.555	9.655	ND	ND	
Tetrahydrocannabivarinic Acid (THCVA)	9.929	37.519	ND	ND	
Total Cannabinoids			**4235.440**	**149.20**	
Total Potential THC			65.720	2.30	
Total Potential CBD			3877.500	136.50	

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: T000251418
Methods: TM04 (GC-MS): Residual Solvents

	Dynamic Range (ppm)	**Result** (ppm)	**Notes**
Propane	98 - 1968	ND	
Butanes (Isobutane, n-Butane)	193 - 3850	ND	
Methanol	61 - 1214	ND	
Pentane	98 - 1952	ND	
Ethanol	97 - 1940	ND	
Acetone	97 - 1937	ND	
Isopropyl Alcohol	101 - 2023	ND	
Hexane	6 - 119	ND	
Ethyl Acetate	99 - 1971	ND	
Benzene	0.2 - 4.1	ND	
Heptanes	98 - 1963	ND	
Toluene	18 - 351	ND	
Xylenes (m,p,o-Xylenes)	130 - 2595	ND	

Final Approval

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

Test ID: T000251416
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: T000251417
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
03:37:00 PM MDT
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Karen Winternheimer
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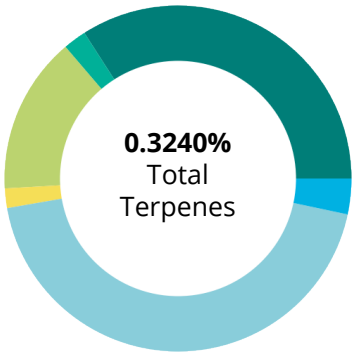
AG-2308-RLC	Various	Unit	
Reported:	**Started:**	**Received:**	
04Aug2023	02Aug2023	02Aug2023	

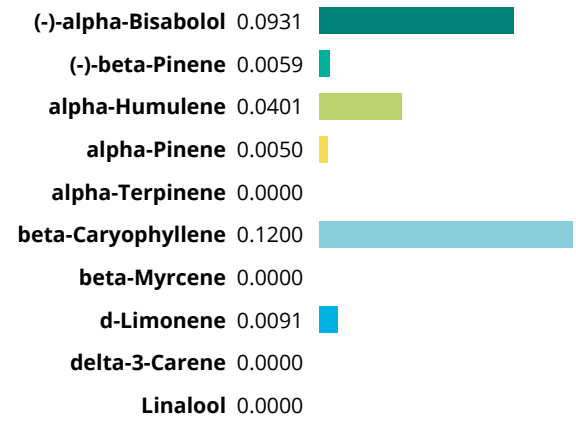
Terpenes

Test ID: T000251414

Methods: TM22 (GC-MS)	%(w/w)	(mg/g)
(-)-alpha-Bisabolol	0.0931	0.931
(-)-beta-Pinene	0.0059	0.059
(-)-Caryophyllene Oxide	0.0420	0.420
(-)-Isopulegol	0.0000	0.0000
alpha-Humulene	0.0401	0.401
alpha-Pinene	0.0050	0.050
alpha-Terpinene	0.0000	0.0000
beta-Caryophyllene	0.1200	1.200
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	0.0091	0.091
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	0.0022	0.022
Terpinolene	0.0000	0.0000
trans-Nerolidol	0.0066	0.066
	0.3240	**3.2400**



PREDOMINANT TERPENES



Notes

Final Approval

Karen Winternheimer
09Aug2023
08:21:00 AM MDT
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Sam Smith
09Aug2023
08:24:00 AM MDT
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04Aug2023	02Aug2023	02Aug2023	

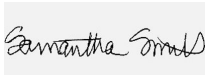
Pesticides

Test ID: T000251415
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
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APPROVED BY / DATE

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04Aug2023	02Aug2023	02Aug2023	

Mycotoxins

Test ID: T000251419
Methods: TM18 (UHPLC-QQQ LCMS/MS): Mycotoxins

	Dynamic Range (ppb)	**Result** (ppb)	**Notes**
Ochratoxin A	1.25 - 119.18	ND	N/A
Aflatoxin B1	0.89 - 30.74	ND	
Aflatoxin B2	0.95 - 30.83	ND	
Aflatoxin G1	0.89 - 30.80	ND	
Aflatoxin G2	1.63 - 30.86	ND	
Total Aflatoxins (B1, B2, G1, and G2)		ND	

Final Approval

Samantha Smith
Sam Smith
11Aug2023
11:08:00 AM MDT
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K Winternheimer
Karen Winternheimer
11Aug2023
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APPROVED BY / DATE

https://results.botanacor.com/api/v1/coas/uuid/ecc0f348-dc99-46ac-9cb1-ad8c344d4202

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.

Cert #4329.02
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