SC Labs®
Formerly Botanacor Labs

CERTIFICATE OF ANALYSIS

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

LB-O-60623

Batch ID or Lot Number:	Test, Test ID and Methods:	Matrix:	Page 1 of 7
AG-2411-RLC	Various	Finished Product	
Reported:	**Started:**	**Received:**	
18Nov2024	15Nov2024	14Nov2024	

Heavy Metals - Colorado Compliance

Test ID: T000293850
Methods: TM19 (ICP-MS): Heavy Metals

	Dynamic Range (ppm)	**Result** (ppm)	**Notes**
Arsenic	0.05 - 4.51	ND	
Cadmium	0.04 - 4.34	ND	
Mercury	0.04 - 4.41	ND	
Lead	0.05 - 4.82	ND	

Final Approval

Judith Marquez
15Nov2024
03:12:00 PM MST
PREPARED BY / DATE

Sam Smith
18Nov2024
08:34:00 AM MST
APPROVED BY / DATE

Microbial Contaminants - Colorado Compliance

Test ID: T000293849
Methods: TM25 (qPCR) TM24, TM26, TM27 (Culture Plating): Microbial (Colorado Panel)

	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

Nora Langer
18Nov2024
02:28:00 PM MST
PREPARED BY / DATE

Brett Hudson
18Nov2024
04:03:00 PM MST
APPROVED BY / DATE

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Residual Solvents - Colorado Compliance

Test ID: T000293851
Methods: TM04 (GC-MS): Residual Solvents

	Dynamic Range (ppm)	**Result** (ppm)	**Notes**
Propane	84 - 1671	ND	
Butanes (Isobutane, n-Butane)	168 - 3351	ND	
Methanol	58 - 1170	ND	
Pentane	86 - 1728	ND	
Ethanol	86 - 1725	ND	
Acetone	93 - 1869	ND	
Isopropyl Alcohol	97 - 1939	ND	
Hexane	6 - 118	ND	
Ethyl Acetate	95 - 1906	ND	
Benzene	0.2 - 3.8	ND	
Heptanes	92 - 1842	ND	
Toluene	17 - 344	ND	
Xylenes (m,p,o-Xylenes)	125 - 2490	ND	

Final Approval

Judith Marquez
19Nov2024
07:57:00 AM MST
PREPARED BY / DATE

Sam Smith
19Nov2024
08:58:00 AM MST
APPROVED BY / DATE

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Cannabinoids - Colorado Compliance

Test ID: T000293846
Methods: TM14 (HPLC-DAD): Potency – Standard

Cannabinoid Analysis	**LOD** (mg)	**LOQ** (mg)	**Result** (mg)	**Result** (mg/g)	**Notes**
Cannabichromene (CBC)	4.219	13.119	94.976	3.34	# of Servings = 1 Sample Weight=28.4g
Cannabichromenic Acid (CBCA)	3.859	12.000	ND	ND	
Cannabidiol (CBD)	10.208	37.531	4079.468	143.64	
Cannabidiolic Acid (CBDA)	10.469	38.494	<LOQ	<LOQ	
Cannabidivarin (CBDV)	2.414	8.876	21.950	0.77	
Cannabidivarinic Acid (CBDVA)	4.367	16.058	ND	ND	
Cannabigerol (CBG)	2.396	7.449	ND	ND	
Cannabigerolic Acid (CBGA)	10.014	31.138	ND	ND	
Cannabinol (CBN)	3.125	9.717	<LOQ	<LOQ	
Cannabinolic Acid (CBNA)	6.833	21.245	ND	ND	
Delta 8-Tetrahydrocannabinol (Delta 8-THC)	11.931	37.097	ND	ND	
Delta 9-Tetrahydrocannabinol (Delta 9-THC)	10.835	33.691	66.559	2.34	
Delta 9-Tetrahydrocannabinolic Acid (THCA-A)	9.600	29.850	ND	ND	
Tetrahydrocannabivarin (THCV)	2.179	6.775	ND	ND	
Tetrahydrocannabivarinic Acid (THCVA)	8.468	26.329	ND	ND	
Total Cannabinoids			**4262.953**	**150.09**	
Total Potential THC			66.559	2.34	
Total Potential CBD			4079.468	143.64	

Final Approval

Judith Marquez
19Nov2024
10:46:00 AM MST
PREPARED BY / DATE

Sam Smith
19Nov2024
10:50:00 AM MST
APPROVED BY / DATE

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Mycotoxins - Colorado Compliance

Test ID: T000293852
Methods: TM18 (UHPLC-QQQ LCMS/MS): Mycotoxins

	Dynamic Range (ppb)	**Result** (ppb)	**Notes**
Ochratoxin A	1.66 - 135.85	ND	N/A
Aflatoxin B1	0.96 - 33.66	ND	
Aflatoxin B2	1.02 - 33.47	ND	
Aflatoxin G1	1.02 - 33.47	ND	
Aflatoxin G2	1.12 - 34.11	ND	
Total Aflatoxins (B1, B2, G1, and G2)		ND	

Final Approval

Sam Smith
21Nov2024
08:49:00 AM MST
PREPARED BY / DATE

Karen Winternheimer
21Nov2024
08:51:00 AM MST
APPROVED BY / DATE

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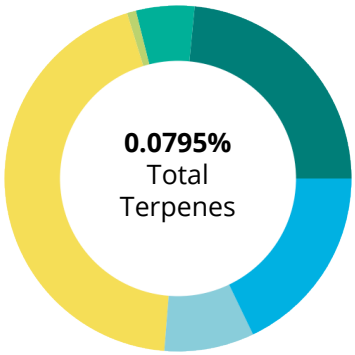
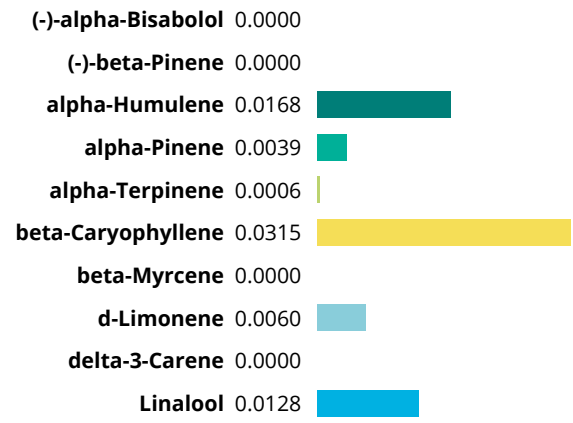
Terpenes

Test ID: T000293847

Methods: TM22 (GC-MS)	%(w/w)	(mg/g)
(-)-alpha-Bisabolol	0.0000	0.0000
(-)-beta-Pinene	0.0000	0.0000
(-)-Caryophyllene Oxide	0.0000	0.0000
(-)-Isopulegol	0.0000	0.0000
alpha-Humulene	0.0168	0.168
alpha-Pinene	0.0039	0.039
alpha-Terpinene	0.0006	0.006
beta-Caryophyllene	0.0315	0.315
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	0.0060	0.060
delta-3-Carene	0.0000	0.0000
Eucalyptol	0.0000	0.0000
gamma-Terpinene	0.0000	0.0000
Geraniol	0.0000	0.0000
Linalool	0.0128	0.128
Ocimene	0.0000	0.0000
p-Cymene	0.0021	0.021
Terpinolene	0.0008	0.008
trans-Nerolidol	0.0050	0.050
	0.0795	**0.7950**



PREDOMINANT TERPENES



Notes

Final Approval

Karen Winternheimer
27Nov2024
10:12:00 AM MST
PREPARED BY / DATE

Sam Smith
27Nov2024
10:14:00 AM MST
APPROVED BY / DATE

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Pesticides

Test ID: T000293848
Methods: TM17

(LC-QQ LC MS/MS)	**Dynamic Range** (ppb)	**Result** (ppb)
Abamectin	391 - 2749	ND
Acephate	14 - 2596	ND
Acetamiprid	22 - 2577	ND
Azoxystrobin	21 - 2696	ND
Bifenazate	20 - 2794	ND
Boscalid	20 - 2699	ND
Carbaryl	21 - 2672	ND
Carbofuran	20 - 2730	ND
Chlorantraniliprole	20 - 2667	ND
Chlorpyrifos	22 - 2812	ND
Clofentezine	286 - 2744	ND
Diazinon	271 - 2724	ND
Dichlorvos	282 - 2632	ND
Dimethoate	24 - 2632	ND
E-Fenpyroximate	230 - 2781	ND
Etofenprox	19 - 2748	ND
Etoxazole	273 - 2707	ND
Fenoxycarb	20 - 2729	ND
Fipronil	13 - 2754	ND
Flonicamid	23 - 2650	ND
Fludioxonil	317 - 2723	ND
Hexythiazox	20 - 2779	ND
Imazalil	267 - 2755	ND
Imidacloprid	26 - 2642	ND
Kresoxim-methyl	21 - 2756	ND

	Dynamic Range (ppb)	**Result** (ppb)
Malathion	284 - 2763	ND
Metalaxyl	18 - 2722	ND
Methiocarb	20 - 2701	ND
Methomyl	20 - 2664	ND
MGK 264 1	169 - 1644	ND
MGK 264 2	119 - 1066	ND
Myclobutanil	20 - 2768	ND
Naled	26 - 2691	ND
Oxamyl	22 - 2677	ND
Paclobutrazol	20 - 2701	ND
Permethrin	289 - 2757	ND
Phosmet	21 - 2666	ND
Prophos	325 - 2729	ND
Propoxur	20 - 2753	ND
Pyridaben	279 - 2835	ND
Spinosad A	16 - 2059	ND
Spinosad D	63 - 659	ND
Spiromesifen	280 - 2768	ND
Spirotetramat	278 - 2818	ND
Spiroxamine 1	7 - 1022	ND
Spiroxamine 2	11 - 1580	ND
Tebuconazole	297 - 2720	ND
Thiacloprid	23 - 2643	ND
Thiamethoxam	23 - 2626	ND
Trifloxystrobin	22 - 2695	ND

Final Approval

Samantha Smith
Sam Smith
05Dec2024
09:24:00 AM MST
PREPARED BY / DATE

K Winternheimer
Karen Winternheimer
05Dec2024
09:26:00 AM MST
APPROVED BY / DATE

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https://results.botanacor.com/api/v1/coas/uuid/b18ecf83-6360-440b-943e-499e0298c87c

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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