botanacor

Official Compliance: Colorado

CERTIFICATE OF ANALYSIS

Prepared for:

ASPEN GREEN

26 AVONDALE LANE #216B
BEAVER CREEK, CO USA 81620

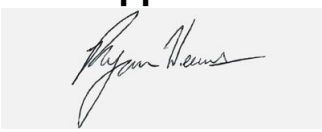
100mg/mL or 3000mg Citrus FSHE

Batch ID or Lot Number:	Test:	Reported:	USDA License:
AG-2210-3C	**Potency**	**07Jun2022**	N/A
Matrix:	Test ID:	Started:	Sampler ID:
Unit	T000208933	06Jun2022	N/A
	Method(s): TM14 (HPLC-DAD): Potency – Standard Cannabinoid Analysis	Received: 02Jun2022	Status: Active

Cannabinoids

	LOD (mg)	**LOQ** (mg)	**Result** (mg)	**Result** (mg/g)	**Notes**
Cannabichromene (CBC)	4.986	16.496	98.809	3.48	# of Servings = 1 Sample Weight=28.4g
Cannabichromenic Acid (CBCA)	4.561	15.088	ND	ND	
Cannabidiol (CBD)	14.910	44.080	3214.117	113.17	
Cannabidiolic Acid (CBDA)	15.292	45.210	51.496	1.81	
Cannabidivarin (CBDV)	3.526	10.425	18.857	0.66	
Cannabidivarinic Acid (CBDVA)	6.379	18.859	ND	ND	
Cannabigerol (CBG)	2.831	9.366	42.027	1.48	
Cannabigerolic Acid (CBGA)	11.835	39.154	ND	ND	
Cannabinol (CBN)	3.694	12.219	<LOQ	0.15	
Cannabinolic Acid (CBNA)	8.075	26.713	ND	ND	
Delta 8-Tetrahydrocannabinol (Delta 8-THC)	14.100	46.646	ND	ND	
Delta 9-Tetrahydrocannabinol (Delta 9-THC)	12.806	42.363	74.512	2.62	
Delta 9-Tetrahydrocannabinolic Acid (THCA-A)	11.346	37.534	ND	ND	
Tetrahydrocannabivarin (THCV)	2.575	8.519	ND	ND	
Tetrahydrocannabivarinic Acid (THCVA)	10.007	33.106	ND	ND	
Total Cannabinoids			**3504.007**	**123.38**	
Total Potential THC			74.512	2.62	
Total Potential CBD			3259.279	114.76	

Final Approval



Ryan Weems
07Jun2022
03:35:00 PM MDT

PREPARED BY / DATE

Karen Winternheimer
07Jun2022
03:40:00 PM MDT

APPROVED BY / DATE

https://results.botanacor.com/api/v1/coas/uuid/ff9915af-1dab-4c00-ba17-71f5a7e576d1

Definitions
% = % (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)).

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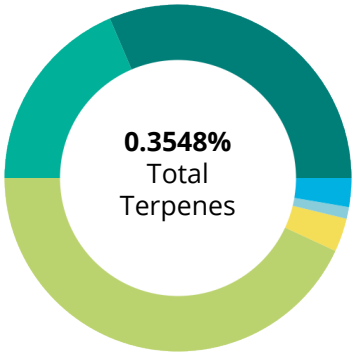
Batch ID or Lot Number:	Test, Test ID and Methods:	Matrix:	Page 5 of 6
AG-2210-3C	Various	Concentrate	
Reported:	**Started:**	**Received:**	
06Jun2022	03Jun2022	02Jun2022	

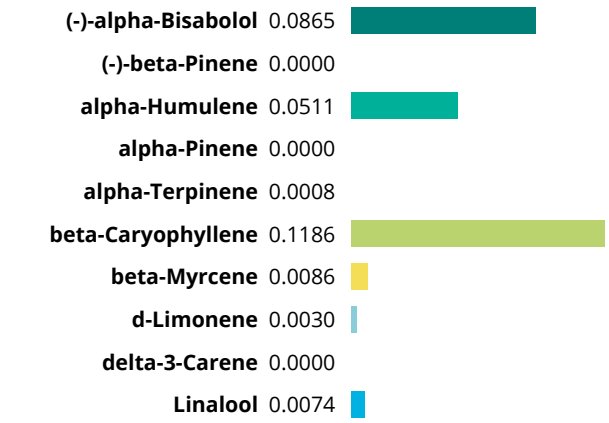
Terpenes

Test ID: T000208934

Methods: TM22 (GC-MS)	%(w/w)	(mg/g)
(-)-alpha-Bisabolol	0.0865	0.865
(-)-beta-Pinene	0.0000	0.0000
(-)-Caryophyllene Oxide	0.0420	0.420
(-)-Isopulegol	0.0000	0.0000
alpha-Humulene	0.0511	0.511
alpha-Pinene	0.0000	0.0000
alpha-Terpinene	0.0008	0.008
beta-Caryophyllene	0.1186	1.186
beta-Myrcene	0.0086	0.086
beta-Ocimene	0.0035	0.035
Camphene	0.0000	0.0000
cis-Nerolidol	0.0000	0.0000
d-Limonene	0.0030	0.030
delta-3-Carene	0.0000	0.0000
Eucalyptol	0.0023	0.023
gamma-Terpinene	0.0011	0.011
Geraniol	0.0000	0.0000
Linalool	0.0074	0.074
Ocimene	0.0000	0.0000
p-Cymene	0.0000	0.0000
Terpinolene	0.0185	0.185
trans-Nerolidol	0.0114	0.114
	0.3548	**3.5480**



PREDOMINANT TERPENES



Notes

Final Approval

Ryan Weems
08Jun2022
04:48:00 PM MDT

PREPARED BY / DATE

Jacob Miller
08Jun2022
04:52:00 PM MDT

APPROVED BY / DATE

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ASPEN GREEN

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Batch ID or Lot Number:	Test, Test ID and Methods:	Matrix:	Page 1 of 6
AG-2210-3C	Various	Concentrate	
Reported:	**Started:**	**Received:**	
06Jun2022	03Jun2022	02Jun2022	

Pesticides

Test ID: T000208935
Methods: TM17

(LC-QQ LC MS/MS)	**Dynamic Range** (ppb)	**Result** (ppb)		**Dynamic Range** (ppb)	**Result** (ppb)
Abamectin	282 - 2769	ND	Malathion	289 - 2734	ND
Acephate	45 - 2760	ND	Metalaxyl	43 - 2734	ND
Acetamiprid	41 - 2704	ND	Methiocarb	48 - 2652	ND
Azoxystrobin	45 - 2664	ND	Methomyl	43 - 2725	ND
Bifenazate	42 - 2706	ND	MGK 264 1	172 - 1655	ND
Boscalid	42 - 2610	ND	MGK 264 2	112 - 1138	ND
Carbaryl	39 - 2731	ND	Myclobutanil	34 - 2694	ND
Carbofuran	41 - 2721	ND	Naled	32 - 2801	ND
Chlorantraniliprole	56 - 2698	ND	Oxamyl	38 - 2716	ND
Chlorpyrifos	44 - 2764	ND	Paclobutrazol	42 - 2749	ND
Clofentezine	242 - 2774	ND	Permethrin	274 - 2733	ND
Diazinon	290 - 2707	ND	Phosmet	41 - 2716	ND
Dichlorvos	290 - 2695	ND	Prophos	286 - 2695	ND
Dimethoate	45 - 2680	ND	Propoxur	41 - 2727	ND
E-Fenpyroximate	284 - 2683	ND	Pyridaben	299 - 2696	ND
Etofenprox	43 - 2676	ND	Spinosad A	26 - 2240	ND
Etoxazole	295 - 2684	ND	Spinosad D	48 - 495	ND
Fenoxycarb	40 - 2748	ND	Spiromesifen	297 - 2726	ND
Fipronil	45 - 2686	ND	Spirotetramat	313 - 2709	ND
Flonicamid	45 - 2745	ND	Spiroxamine 1	15 - 1143	ND
Fludioxonil	286 - 2707	ND	Spiroxamine 2	23 - 1534	ND
Hexythiazox	44 - 2712	ND	Tebuconazole	264 - 2723	ND
Imazalil	270 - 2786	ND	Thiacloprid	45 - 2688	ND
Imidacloprid	43 - 2667	ND	Thiamethoxam	48 - 2712	ND
Kresoxim-methyl	55 - 2708	ND	Trifloxystrobin	45 - 2732	ND

Final Approval

Sam Smith
06Jun2022
02:13:00 PM MDT
PREPARED BY / DATE

Ryan Weems
06Jun2022
02:16:00 PM MDT
APPROVED BY / DATE

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Batch ID or Lot Number:	Test, Test ID and Methods:	Matrix:	Page 3 of 6
AG-2210-3C	Various	Concentrate	
Reported:	Started:	Received:	
06Jun2022	03Jun2022	02Jun2022	

Microbial Contaminants - Colorado Compliance

Test ID: T000208936
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

Brett Hudson
05Jun2022
12:27:00 PM MDT
PREPARED BY / DATE

Brianne Maillot
06Jun2022
05:24:00 PM MDT
APPROVED BY / DATE

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Official Compliance: Colorado

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Batch ID or Lot Number:	Test:	Reported:	USDA License:
AG-2210-3C	**Heavy Metals**	**07Jun2022**	NA
Matrix:	Test ID:	Started:	Sampler ID:
Unit Co	T000208937	07Jun2022	NA
	Method(s):	Received:	Status:
	TM19 (ICP-MS): Heavy Metals	02Jun2022	NA

Heavy Metals

	Dynamic Range (ppm)	**Result** (ppm)	**Notes**
Arsenic	0.04 - 4.34	ND	
Cadmium	0.05 - 4.52	ND	
Mercury	0.05 - 4.61	ND	
Lead	0.05 - 4.65	ND	

Final Approval

Kayla Phye
07Jun2022
12:43:00 PM MDT

PREPARED BY / DATE

Ryan Weems
07Jun2022
12:50:00 PM MDT

APPROVED BY / DATE

https://results.botanacor.com/api/v1/coas/uuid/86528980-2db2-4d5b-a094-ec863fa35bb1

Definitions
ND = None Detected (defined by dynamic range of the method)
Dynamic Range = Limit of Quantitation (LOQ) through Upper Limit of Method Range

Cert #4329.02

CDPHE Certified

865289802db24d5ba094ec863fa35bb1.1

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100mg/mL or 3000mg Citrus FSHE

Batch ID or Lot Number:	Test, Test ID and Methods:	Matrix:	
AG-2210-3C	Various	Concentrate	
Reported:	Started:	Received:	
06Jun2022	03Jun2022	02Jun2022	

Residual Solvents - Colorado Compliance

Test ID: T000208938
Methods: TM04 (GC-MS): Residual Solvents

	Dynamic Range (ppm)	**Result** (ppm)	**Notes**
Propane	59 - 1181	ND	
Butanes (Isobutane, n-Butane)	123 - 2452	ND	
Methanol	48 - 967	ND	
Pentane	66 - 1319	ND	
Ethanol	74 - 1471	ND	
Acetone	74 - 1486	ND	
Isopropyl Alcohol	78 - 1552	ND	
Hexane	4 - 90	ND	
Ethyl Acetate	76 - 1530	ND	
Benzene	0.2 - 3.3	ND	
Heptanes	76 - 1528	ND	
Toluene	14 - 288	ND	
Xylenes (m,p,o-Xylenes)	106 - 2123	ND	

Final Approval

Samantha Smith
Sam Smith
06Jun2022
05:00:00 PM MDT
PREPARED BY / DATE

Ryan Weems
Ryan Weems
06Jun2022
05:03:00 PM MDT
APPROVED BY / DATE

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Batch ID or Lot Number:	Test, Test ID and Methods:	Matrix:	Page 6 of 6
AG-2210-3C	Various	Concentrate	
Reported:	**Started:**	**Received:**	
06Jun2022	03Jun2022	02Jun2022	

Mycotoxins - Colorado Compliance

Test ID: T000208939
Methods: TM18 (UHPLC-QQQ LCMS/MS): Mycotoxins

	Dynamic Range (ppb)	**Result** (ppb)	**Notes**
Ochratoxin A	3.89 - 127.55	ND	N/A
Aflatoxin B1	0.95 - 32.46	ND	
Aflatoxin B2	1.01 - 32.27	ND	
Aflatoxin G1	0.92 - 32.36	ND	
Aflatoxin G2	1.14 - 32.02	ND	
Total Aflatoxins (B1, B2, G1, and G2)		ND	

Final Approval

Sam Smith
09Jun2022
10:50:00 AM MDT
PREPARED BY / DATE

Ryan Weems
09Jun2022
10:52:00 AM MDT
APPROVED BY / DATE

https://results.botanacor.com/api/v1/coas/uuid/53026c1b-ea96-470d-8168-f6fb6c5d5248

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
53026c1bea96470d8168f6fb6c5d5248.1