botanacor

Official Compliance: Colorado

CERTIFICATE OF ANALYSIS

Prepared for:

ASPEN GREEN

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

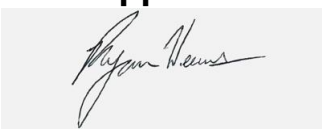
100mg/mL or 3000mg Mint FSHE

Batch ID or Lot Number:	Test:	Reported:	USDA License:
AG-2210-3M	**Potency**	**07Jun2022**	N/A
Matrix:	Test ID:	Started:	Sampler ID:
Unit	T000208940	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)	5.050	16.705	97.702	3.44	# of Servings = 1 Sample Weight=28.4g
Cannabichromenic Acid (CBCA)	4.619	15.280	ND	ND	
Cannabidiol (CBD)	15.099	44.638	3213.426	113.15	
Cannabidiolic Acid (CBDA)	15.486	45.783	52.110	1.83	
Cannabidivarin (CBDV)	3.571	10.557	18.951	0.67	
Cannabidivarinic Acid (CBDVA)	6.460	19.098	ND	ND	
Cannabigerol (CBG)	2.867	9.485	42.002	1.48	
Cannabigerolic Acid (CBGA)	11.985	39.650	ND	ND	
Cannabinol (CBN)	3.740	12.374	<LOQ	0.15	
Cannabinolic Acid (CBNA)	8.177	27.052	ND	ND	
Delta 8-Tetrahydrocannabinol (Delta 8-THC)	14.279	47.237	ND	ND	
Delta 9-Tetrahydrocannabinol (Delta 9-THC)	12.968	42.900	75.281	2.65	
Delta 9-Tetrahydrocannabinolic Acid (THCA-A)	11.489	38.009	ND	ND	
Tetrahydrocannabivarin (THCV)	2.608	8.627	ND	ND	
Tetrahydrocannabivarinic Acid (THCVA)	10.134	33.526	ND	ND	
Total Cannabinoids			**3503.632**	**123.37**	
Total Potential THC			75.281	2.65	
Total Potential CBD			3259.126	114.76	

Final Approval



PREPARED BY / DATE

Ryan Weems
07Jun2022
03:35:00 PM MDT

APPROVED BY / DATE

Karen Winternheimer
07Jun2022
03:40:00 PM MDT

https://results.botanacor.com/api/v1/coas/uuid/3eb0ba59-8e91-41d7-97c5-7951b8009667

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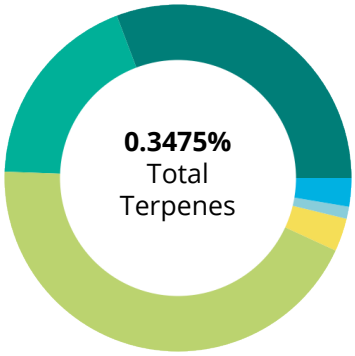
Batch ID or Lot Number:	Test, Test ID and Methods:	Matrix:	Page 5 of 6
AG-2210-3M	Various	Concentrate	
Reported:	**Started:**	**Received:**	
06Jun2022	03Jun2022	02Jun2022	

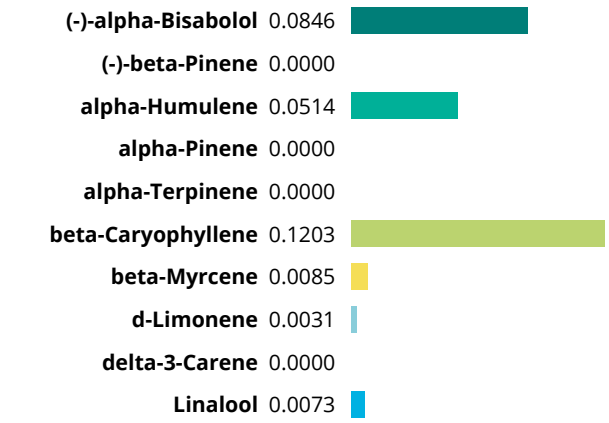
Terpenes

Test ID: T000208941

Methods: TM22 (GC-MS)	%(w/w)	(mg/g)
(-)-alpha-Bisabolol	0.0846	0.846
(-)-beta-Pinene	0.0000	0.0000
(-)-Caryophyllene Oxide	0.0359	0.359
(-)-Isopulegol	0.0000	0.0000
alpha-Humulene	0.0514	0.514
alpha-Pinene	0.0000	0.0000
alpha-Terpinene	0.0000	0.0000
beta-Caryophyllene	0.1203	1.203
beta-Myrcene	0.0085	0.085
beta-Ocimene	0.0034	0.034
Camphene	0.0000	0.0000
cis-Nerolidol	0.0000	0.0000
d-Limonene	0.0031	0.031
delta-3-Carene	0.0000	0.0000
Eucalyptol	0.0023	0.023
gamma-Terpinene	0.0010	0.010
Geraniol	0.0000	0.0000
Linalool	0.0073	0.073
Ocimene	0.0000	0.0000
p-Cymene	0.0000	0.0000
Terpinolene	0.0180	0.180
trans-Nerolidol	0.0117	0.117
	0.3475	**3.4750**



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
26 AVONDALE LANE #216B
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Batch ID or Lot Number:	Test, Test ID and Methods:	Matrix:	Page 1 of 6
AG-2210-3M	Various	Concentrate	
Reported:	**Started:**	**Received:**	
06Jun2022	03Jun2022	02Jun2022	

Pesticides

Test ID: T000208942
Methods: TM17

(LC-QQ LC MS/MS)	**Dynamic Range** (ppb)	**Result** (ppb)
Abamectin	282 - 2769	ND
Acephate	45 - 2760	ND
Acetamiprid	41 - 2704	ND
Azoxystrobin	45 - 2664	ND
Bifenazate	42 - 2706	ND
Boscalid	42 - 2610	ND
Carbaryl	39 - 2731	ND
Carbofuran	41 - 2721	ND
Chlorantraniliprole	56 - 2698	ND
Chlorpyrifos	44 - 2764	ND
Clofentezine	242 - 2774	ND
Diazinon	290 - 2707	ND
Dichlorvos	290 - 2695	ND
Dimethoate	45 - 2680	ND
E-Fenpyroximate	284 - 2683	ND
Etofenprox	43 - 2676	ND
Etoxazole	295 - 2684	ND
Fenoxycarb	40 - 2748	ND
Fipronil	45 - 2686	ND
Flonicamid	45 - 2745	ND
Fludioxonil	286 - 2707	ND
Hexythiazox	44 - 2712	ND
Imazalil	270 - 2786	ND
Imidacloprid	43 - 2667	ND
Kresoxim-methyl	55 - 2708	ND

	Dynamic Range (ppb)	**Result** (ppb)
Malathion	289 - 2734	ND
Metalaxyl	43 - 2734	ND
Methiocarb	48 - 2652	ND
Methomyl	43 - 2725	ND
MGK 264 1	172 - 1655	ND
MGK 264 2	112 - 1138	ND
Myclobutanil	34 - 2694	ND
Naled	32 - 2801	ND
Oxamyl	38 - 2716	ND
Paclobutrazol	42 - 2749	ND
Permethrin	274 - 2733	ND
Phosmet	41 - 2716	ND
Prophos	286 - 2695	ND
Propoxur	41 - 2727	ND
Pyridaben	299 - 2696	ND
Spinosad A	26 - 2240	ND
Spinosad D	48 - 495	ND
Spiromesifen	297 - 2726	ND
Spirotetramat	313 - 2709	ND
Spiroxamine 1	15 - 1143	ND
Spiroxamine 2	23 - 1534	ND
Tebuconazole	264 - 2723	ND
Thiacloprid	45 - 2688	ND
Thiamethoxam	48 - 2712	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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26 AVONDALE LANE #216B
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Batch ID or Lot Number:	Test, Test ID and Methods:	Matrix:	
AG-2210-3M	Various	Concentrate	
Reported:	Started:	Received:	
06Jun2022	03Jun2022	02Jun2022	

Microbial Contaminants - Colorado Compliance

Test ID: T000208943
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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Batch ID or Lot Number:	Test:	Reported:	USDA License:
AG-2210-3M	**Heavy Metals**	**07Jun2022**	NA
Matrix:	Test ID:	Started:	Sampler ID:
Unit Co	T000208944	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/dbf5b337-e202-408b-adeb-a9cd2620bb8f

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

Certified Test Laboratory

CDPHE Certified

dbf5b337e202408badeba9cd2620bb8f.1

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

100mg/mL or 3000mg Mint FSHE

Batch ID or Lot Number:	Test, Test ID and Methods:	Matrix:	Page 2 of 6
AG-2210-3M	Various	Concentrate	
Reported:	Started:	Received:	
06Jun2022	03Jun2022	02Jun2022	

Residual Solvents - Colorado Compliance

Test ID: T000208945
Methods: TM04 (GC-MS): Residual Solvents

	Dynamic Range (ppm)	**Result** (ppm)	**Notes**
Propane	58 - 1164	ND	
Butanes (Isobutane, n-Butane)	121 - 2418	ND	
Methanol	48 - 953	ND	
Pentane	65 - 1301	ND	
Ethanol	73 - 1450	ND	
Acetone	73 - 1465	ND	
Isopropyl Alcohol	77 - 1531	ND	
Hexane	4 - 89	ND	
Ethyl Acetate	75 - 1508	ND	
Benzene	0.2 - 3.2	ND	
Heptanes	75 - 1506	ND	
Toluene	14 - 284	ND	
Xylenes (m,p,o-Xylenes)	105 - 2093	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-2210-3M	Various	Concentrate	
Reported:	**Started:**	**Received:**	
06Jun2022	03Jun2022	02Jun2022	

Mycotoxins - Colorado Compliance

Test ID: T000208946
Methods: TM18 (UHPLC-QQQ LCMS/MS): Mycotoxins

	Dynamic Range (ppb)	**Result** (ppb)	**Notes**
Ochratoxin A	3.77 - 123.47	ND	N/A
Aflatoxin B1	0.92 - 31.42	ND	
Aflatoxin B2	0.98 - 31.23	ND	
Aflatoxin G1	0.89 - 31.33	ND	
Aflatoxin G2	1.10 - 30.99	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/63f45e30-9c19-43b7-9a4d-8c5361c897dc

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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