botanacor

CERTIFICATE OF ANALYSIS

Prepared for:

Astraèa & Co

50 E. Ridgewood Ave, STE 303
Ridgewood, NJ USA 07450

CBN + Melatonin Gummy

Batch ID or Lot Number:	Test, Test ID and Methods:	Matrix:	Page 1 of 5
SLGV2-051622	Various	Unit	
Reported:	Started:	Received:	
20May2022	19May2022	18May2022	

Cannabinoids

Test ID: T000207430

Methods: TM14 (HPLC-DAD)	**LOD** (mg)	**LOQ** (mg)	**Result** (mg)	**Result** (mg/g)	**Notes**
Cannabichromene (CBC)	0.213	0.777	ND	ND	# of Servings = 1, Sample Weight=3.5g
Cannabichromenic Acid (CBCA)	0.195	0.711	ND	ND	
Cannabidiol (CBD)	0.721	2.222	ND	ND	
Cannabidiolic Acid (CBDA)	0.740	2.279	ND	ND	
Cannabidivarin (CBDV)	0.171	0.526	ND	ND	
Cannabidivarinic Acid (CBDVA)	0.309	0.951	ND	ND	
Cannabigerol (CBG)	0.121	0.441	ND	ND	
Cannabigerolic Acid (CBGA)	0.506	1.844	ND	ND	
Cannabinol (CBN)	0.158	0.576	17.300	4.90	
Cannabinolic Acid (CBNA)	0.345	1.258	ND	ND	
Delta 8-Tetrahydrocannabinol (Delta 8-THC)	0.603	2.197	ND	ND	
Delta 9-Tetrahydrocannabinol (Delta 9-THC)	0.548	1.995	ND	ND	
Delta 9-Tetrahydrocannabinolic Acid (THCA-A)	0.485	1.768	ND	ND	
Tetrahydrocannabivarin (THCV)	0.110	0.401	ND	ND	
Tetrahydrocannabivarinic Acid (THCVA)	0.428	1.559	ND	ND	
Total Cannabinoids			**17.300**	**4.94**	
Total Potential THC			ND	ND	
Total Potential CBD			ND	ND	

Final Approval

Karen Winternheimer
20May2022
03:22:00 PM MDT
PREPARED BY / DATE

Jacob Miller
20May2022
03:26:00 PM MDT
APPROVED BY / DATE

Heavy Metals

Test ID: T000207433

Methods: TM19 (ICP-MS): Heavy Metals

	Dynamic Range (ppm)	**Result** (ppm)	**Notes**
Arsenic	0.04 - 4.45	ND	
Cadmium	0.05 - 4.53	ND	
Mercury	0.04 - 4.33	ND	
Lead	0.04 - 3.56	ND	

Final Approval

Daniel Weidensaul
20May2022
02:57:00 PM MDT
PREPARED BY / DATE

Kayla Phye
20May2022
02:59:00 PM MDT
APPROVED BY / DATE

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Mycotoxins

Test ID: T000207435
Methods: TM18 (UHPLC-QQQ LCMS/MS): Mycotoxins

	Dynamic Range (ppb)	**Result** (ppb)	**Notes**
Ochratoxin A	3.81 - 128.43	ND	N/A
Aflatoxin B1	1.03 - 33.11	ND	
Aflatoxin B2	0.99 - 32.63	ND	
Aflatoxin G1	1.12 - 32.40	ND	
Aflatoxin G2	1.28 - 32.02	ND	
Total Aflatoxins (B1, B2, G1, and G2)		ND	

Final Approval

Ryan Weems
23May2022
07:27:00 AM MDT
PREPARED BY / DATE

Sam Smith
23May2022
07:29:00 AM MDT
APPROVED BY / DATE

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Pesticides

Test ID: T000207431
Methods: TM17

(LC-QQ LC MS/MS)	**Dynamic Range** (ppb)	**Result** (ppb)		**Dynamic Range** (ppb)	**Result** (ppb)
Abamectin	300 - 2744	ND	Malathion	276 - 2750	ND
Acephate	50 - 2726	ND	Metalaxyl	40 - 2720	ND
Acetamiprid	43 - 2739	ND	Methiocarb	44 - 2634	ND
Azoxystrobin	44 - 2715	ND	Methomyl	44 - 2745	ND
Bifenazate	45 - 2716	ND	MGK 264 1	171 - 1585	ND
Boscalid	65 - 2775	ND	MGK 264 2	132 - 1103	ND
Carbaryl	42 - 2712	ND	Myclobutanil	34 - 2680	ND
Carbofuran	42 - 2711	ND	Naled	39 - 2729	ND
Chlorantraniliprole	60 - 2676	ND	Oxamyl	42 - 2736	ND
Chlorpyrifos	48 - 2729	ND	Paclobutrazol	38 - 2726	ND
Clofentezine	274 - 2734	ND	Permethrin	257 - 2742	ND
Diazinon	296 - 2725	ND	Phosmet	43 - 2705	ND
Dichlorvos	277 - 2742	ND	Prophos	302 - 2641	ND
Dimethoate	46 - 2706	ND	Propoxur	41 - 2708	ND
E-Fenpyroximate	277 - 2728	ND	Pyridaben	274 - 2772	ND
Etofenprox	44 - 2740	ND	Spinosad A	34 - 2233	ND
Etoxazole	278 - 2714	ND	Spinosad D	49 - 494	ND
Fenoxycarb	32 - 2735	ND	Spiromesifen	268 - 2746	ND
Fipronil	26 - 2751	ND	Spirotetramat	300 - 2777	ND
Flonicamid	50 - 2694	ND	Spiroxamine 1	20 - 1138	ND
Fludioxonil	306 - 2680	ND	Spiroxamine 2	26 - 1506	ND
Hexythiazox	42 - 2775	ND	Tebuconazole	284 - 2746	ND
Imazalil	263 - 2766	ND	Thiacloprid	45 - 2729	ND
Imidacloprid	39 - 2714	ND	Thiamethoxam	45 - 2721	ND
Kresoxim-methyl	58 - 2737	ND	Trifloxystrobin	41 - 2745	ND

Final Approval

Sam Smith
23May2022
11:54:00 AM MDT
PREPARED BY / DATE

Ryan Weems
23May2022
11:57:00 AM MDT
APPROVED BY / DATE

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Microbial Contaminants

Test ID: T000207432
Methods: TM25 (PCR) TM24, TM26, TM27 (Culture Plating)

	Method	LOD	Quantitation Range	Result	Notes
STEC	TM25: PCR	10^0 CFU/g	NA	Absent	Free from visual mold, mildew, and foreign matter
Salmonella	TM25: PCR	10^0 CFU/g	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

Eden Thompson-Wright
23May2022
03:46:00 PM MDT
PREPARED BY / DATE

Brianne Maillot
23May2022
04:40:00 PM MDT
APPROVED BY / DATE

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Residual Solvents

Test ID: T000207434
Methods: TM04 (GC-MS): Residual Solvents

	Dynamic Range (ppm)	**Result** (ppm)	**Notes**
Propane	114 - 2282	ND	
Butanes (Isobutane, n-Butane)	190 - 3793	ND	
Methanol	74 - 1472	ND	
Pentane	104 - 2080	ND	
Ethanol	106 - 2111	320	
Acetone	118 - 2356	ND	
Isopropyl Alcohol	119 - 2381	ND	
Hexane	7 - 142	ND	
Ethyl Acetate	118 - 2362	ND	
Benzene	0.2 - 4.3	ND	
Heptanes	98 - 1962	ND	
Toluene	22 - 432	ND	
Xylenes (m,p,o-Xylenes)	156 - 3116	ND	

Final Approval

Daniel Weidensaul
24May2022
06:15:00 PM MDT
PREPARED BY / DATE

Ryan Weems
24May2022
06:17:00 PM MDT
APPROVED BY / DATE

https://results.botanacor.com/api/v1/coas/uuid/a57a1a6a-4574-42c5-bbee-ae721ab0abde

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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