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CERTIFICATE OF ANALYSIS

Prepared for:

Planetarie

1070 Diamond Valley Dr. Ste. 200
Windsor, CO USA 80550

060322-FL80

Batch ID or Lot Number:	Test:	Reported:	USDA License:
060322-122419-3FL80	**Potency**	**21Jun2022**	N/A
Matrix:	Test ID:	Started:	Sampler ID:
Concentrate	T000210106	17Jun2022	N/A
	Method(s):	Received:	Status:
	TM14 (HPLC-DAD)	15Jun2022	N/A

Cannabinoids

	LOD (%)	**LOQ** (%)	**Result** (%)	**Result** (mg/g)	**Notes**
Cannabichromene (CBC)	0.058	0.176	ND	ND	
Cannabichromenic Acid (CBCA)	0.053	0.161	0.960	9.60	
Cannabidiol (CBD)	0.157	0.476	0.820	8.20	
Cannabidiolic Acid (CBDA)	0.161	0.488	68.770	687.70	
Cannabidivarin (CBDV)	0.037	0.113	ND	ND	
Cannabidivarinic Acid (CBDVA)	0.067	0.204	0.210	2.10	
Cannabigerol (CBG)	0.033	0.100	ND	ND	
Cannabigerolic Acid (CBGA)	0.138	0.419	2.060	20.60	
Cannabinol (CBN)	0.043	0.131	0.080	0.80	
Cannabinolic Acid (CBNA)	0.094	0.286	0.110	1.10	
Delta 8-Tetrahydrocannabinol (Delta 8-THC)	0.165	0.499	0.300	3.00	
Delta 9-Tetrahydrocannabinol (Delta 9-THC)	0.149	0.453	0.740	7.40	
Delta 9-Tetrahydrocannabinolic Acid (THCA-A)	0.132	0.401	2.200	22.00	
Tetrahydrocannabivarin (THCV)	0.030	0.091	ND	ND	
Tetrahydrocannabivarinic Acid (THCVA)	0.117	0.354	ND	ND	
Total Cannabinoids			**76.250**	**762.50**	
Total Potential THC			2.669	26.69	
Total Potential CBD			61.131	611.31	

Final Approval

Karen Winternheimer
21Jun2022
04:06:00 PM MDT

PREPARED BY / DATE

Jacob Miller
21Jun2022
04:09:00 PM MDT

APPROVED BY / DATE

https://results.botanacor.com/api/v1/coas/uuid/17685daa-96c2-4353-8442-74c3774d6d44

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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060322-FL80

Batch ID or Lot Number:	Test:	Reported:	USDA License:
060322-122419-3FL80	**Microbial Contaminants**	**21Jun2022**	NA
Matrix:	Test ID:	Started:	Sampler ID:
Concentrate	T000210108	16Jun2022	NA
	Method(s): TM25 (PCR) TM24, TM26, TM27 (Culture Plating)	Received: 15Jun2022	Status: NA

Microbial Contaminants

	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

Brianne Maillot
19Jun2022
12:54:00 PM MDT
PREPARED BY / DATE

Carly Bader
21Jun2022
03:01:00 PM MDT
APPROVED BY / DATE

https://results.botanacor.com/api/v1/coas/uuid/8a9ac644-6983-4cff-a7a1-84f5acbddf28

Definitions
* 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
CFU/g = Colony Forming Units per Gram, LOD = Limit of Detection
ULOQ = Upper Limit of Quantitation, LLOQ = Lower Limit of Quantitation
STEC = Shiga Toxin-Producing E. coli

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1070 Diamond Valley Dr. Ste. 200
Windsor, CO USA 80550

060322-FL80

Batch ID or Lot Number:	Test:	Reported:	USDA License:
060322-122419-3FL80	**Mycotoxins**	**21Jun2022**	N/A
Matrix:	Test ID:	Started:	Sampler ID:
Concentrate	T000210111	17Jun2022	N/A
	Method(s): TM18 (UHPLC-QQQ LCMS/MS): Mycotoxins	Received: 15Jun2022	Status: Active

Mycotoxins

	Dynamic Range (ppb)	**Result** (ppb)	**Notes**
Ochratoxin A	3.18 - 131.75	ND	N/A
Aflatoxin B1	1.03 - 32.50	ND	
Aflatoxin B2	1.67 - 32.09	ND	
Aflatoxin G1	1.03 - 32.38	ND	
Aflatoxin G2	1.70 - 32.44	ND	
Total Aflatoxins (B1, B2, G1, and G2)		ND	

Final Approval

Samantha Smith
Sam Smith
21Jun2022
12:43:00 PM MDT
PREPARED BY / DATE

Jacob Miller
21Jun2022
12:46:00 PM MDT
APPROVED BY / DATE

https://results.botanacor.com/api/v1/coas/uuid/cdf2b799-741f-4d5d-82d2-688687b3f3de

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
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Windsor, CO USA 80550

060322-FL80

Batch ID or Lot Number:	Test:	Reported:	USDA License:
060322-122419-3FL80	**Pesticides**	**22Jun2022**	NA
Matrix:	Test ID:	Started:	Sampler ID:
Concentrate	T000210107	21Jun2022	NA
	Method(s):	Received:	Status:
	TM17 (LC-QQ LC MS/MS)	15Jun2022	NA

Pesticides

	Dynamic Range (ppb)	**Result** (ppb)
Abamectin	263 - 2783	ND
Acephate	40 - 2860	ND
Acetamiprid	39 - 2791	ND
Azoxystrobin	41 - 2699	ND
Bifenazate	46 - 2691	ND
Boscalid	25 - 2752	ND
Carbaryl	39 - 2732	ND
Carbofuran	44 - 2720	ND
Chlorantraniliprole	46 - 2697	ND
Chlorpyrifos	36 - 2758	<LOQ
Clofentezine	287 - 2699	ND
Diazinon	289 - 2732	ND
Dichlorvos	263 - 2840	ND
Dimethoate	38 - 2795	ND
E-Fenpyroximate	308 - 2698	ND
Etofenprox	35 - 2760	ND
Etoxazole	293 - 2712	ND
Fenoxycarb	38 - 2695	ND
Fipronil	22 - 2770	ND
Flonicamid	54 - 2783	ND
Fludioxonil	278 - 2740	ND
Hexythiazox	34 - 2718	ND
Imazalil	277 - 2721	ND
Imidacloprid	38 - 2792	ND
Kresoxim-methyl	47 - 2758	ND

	Dynamic Range (ppb)	**Result** (ppb)
Malathion	299 - 2719	ND
Metalaxyl	46 - 2726	ND
Methiocarb	36 - 2754	ND
Methomyl	39 - 2825	ND
MGK 264 1	165 - 1658	ND
MGK 264 2	107 - 1142	ND
Myclobutanil	22 - 2768	ND
Naled	45 - 2734	ND
Oxamyl	38 - 2825	ND
Paclobutrazol	62 - 2612	ND
Permethrin	253 - 2786	ND
Phosmet	49 - 2701	ND
Prophos	254 - 2776	ND
Propoxur	41 - 2705	ND
Pyridaben	287 - 2730	ND
Spinosad A	33 - 2228	ND
Spinosad D	48 - 491	ND
Spiromesifen	244 - 2771	ND
Spirotetramat	303 - 2712	ND
Spiroxamine 1	15 - 1177	ND
Spiroxamine 2	20 - 1558	ND
Tebuconazole	365 - 2621	ND
Thiacloprid	41 - 2816	ND
Thiamethoxam	39 - 2797	ND
Trifloxystrobin	43 - 2729	ND

Final Approval

Sam Smith
22Jun2022
04:52:00 PM MDT
PREPARED BY / DATE

Karen Winternheimer
22Jun2022
04:54:00 PM MDT
APPROVED BY / DATE

https://results.botanacor.com/api/v1/coas/uuid/9371e2d7-8af5-4278-9afa-f8fb0180e1d5

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

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9371e2d78af542789afaf8fb0180e1d5.1

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Windsor, CO USA 80550

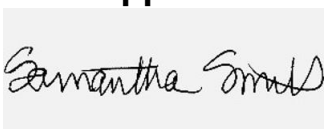
060322-FL80

Batch ID or Lot Number:	Test:	Reported:	USDA License:
060322-122419-3FL80	**Residual Solvents**	**22Jul2022**	N/A
Matrix:	Test ID:	Started:	Sampler ID:
Concentrate	T000214754	21Jul2022	N/A
	Method(s):	Received:	Status:
	TM04 (GC-MS): Residual Solvents	20Jul2022	Active

Residual Solvents

	Dynamic Range (ppm)	**Result** (ppm)	**Notes**
Propane	83 - 1663	ND	
Butanes (Isobutane, n-Butane)	170 - 3395	ND	
Methanol	57 - 1131	ND	
Pentane	91 - 1826	ND	
Ethanol	88 - 1753	ND	
Acetone	100 - 2007	ND	
Isopropyl Alcohol	96 - 1921	ND	
Hexane	6 - 111	ND	
Ethyl Acetate	83 - 1666	ND	
Benzene	0.2 - 3.2	ND	
Heptanes	99 - 1974	ND	
Toluene	17 - 345	ND	
Xylenes (m,p,o-Xylenes)	133 - 2668	ND	

Final Approval



Sam Smith
22Jul2022
11:20:00 AM MDT

PREPARED BY / DATE

Jacob Miller
22Jul2022
11:26:00 AM MDT

APPROVED BY / DATE

https://results.botanacor.com/api/v1/coas/uuid/9fe12664-3aac-4c73-82c2-732d0801ab70

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

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Windsor, CO USA 80550

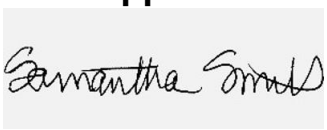
060322-FL80

Batch ID or Lot Number:	Test:	Reported:	USDA License:
060322-122419-3FL80	**Heavy Metals**	**23Jun2022**	NA
Matrix:	Test ID:	Started:	Sampler ID:
Concentrate	T000210109	23Jun2022	NA
	Method(s):	Received:	Status:
	TM19 (ICP-MS): Heavy Metals	15Jun2022	NA

Heavy Metals

	Dynamic Range (ppm)	**Result** (ppm)	**Notes**
Arsenic	0.08 - 7.89	ND	
Cadmium	0.08 - 7.93	ND	
Mercury	0.08 - 7.81	ND	
Lead	0.08 - 8.18	ND	

Final Approval



Sam Smith
23Jun2022
05:02:00 PM MDT

PREPARED BY / DATE

Daniel Weidensaul
23Jun2022
05:04:00 PM MDT

APPROVED BY / DATE

https://results.botanacor.com/api/v1/coas/uuid/f850f4f5-bf39-47ea-9f20-dd88259da407

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

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