SC Labs®
Formerly Botanacor Labs

CERTIFICATE OF ANALYSIS

Prepared for:
Pet Releaf
8100 Southpark Way #A3
Littleton, CO USA 80120

300 mg - Hip & Joint

Batch ID or Lot Number:	Test, Test ID and Methods:	Matrix:	Page 2 of 6
1223FH305	Various	Finished Product	
Reported:	**Started:**	**Received:**	
04Dec2023	01Dec2023	01Dec2023	

Cannabinoids - Colorado Compliance

Test ID: T000263596
Methods: TM14 (HPLC-DAD): Potency – Standard

Cannabinoid Analysis	**LOD** (mg/mL)	**LOQ** (mg/mL)	**Result** (mg/mL)	**Result** (mg/g)	**Notes**
Cannabichromene (CBC)	0.068	0.232	0.300	0.32	Density = 0.945g/mL
Cannabichromenic Acid (CBCA)	0.063	0.212	ND	ND	
Cannabidiol (CBD)	0.233	0.553	10.577	11.19	
Cannabidiolic Acid (CBDA)	0.239	0.567	ND	ND	
Cannabidivarin (CBDV)	0.055	0.131	ND	ND	
Cannabidivarinic Acid (CBDVA)	0.100	0.237	ND	ND	
Cannabigerol (CBG)	0.039	0.132	<LOQ	<LOQ	
Cannabigerolic Acid (CBGA)	0.162	0.550	ND	ND	
Cannabinol (CBN)	0.051	0.172	<LOQ	<LOQ	
Cannabinolic Acid (CBNA)	0.111	0.375	ND	ND	
Delta 8-Tetrahydrocannabinol (Delta 8-THC)	0.193	0.655	ND	ND	
Delta 9-Tetrahydrocannabinol (Delta 9-THC)	0.176	0.595	ND	ND	
Delta 9-Tetrahydrocannabinolic Acid (THCA-A)	0.156	0.527	ND	ND	
Tetrahydrocannabivarin (THCV)	0.035	0.120	ND	ND	
Tetrahydrocannabivarinic Acid (THCVA)	0.137	0.465	ND	ND	
Total Cannabinoids			**10.877**	**11.51**	
Total Potential THC			ND	ND	
Total Potential CBD			10.577	11.19	

Final Approval

Samantha Smith
Sam Smith
05Dec2023
11:55:00 AM MST
PREPARED BY / DATE

K Winternheimer
Karen Winternheimer
05Dec2023
12:04:00 PM MST
APPROVED BY / DATE

Approved: Paul Gennings QC 12-04-23

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Microbial Contaminants - Colorado Compliance

Test ID: T000263598
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

Eden Thompson-Wright
04Dec2023
02:15:00 PM MST
PREPARED BY / DATE

Brianne Maillot
04Dec2023
03:09:00 PM MST
APPROVED BY / DATE

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Residual Solvents - Colorado Compliance

Test ID: T000263600
Methods: TM04 (GC-MS): Residual Solvents

	Dynamic Range (ppm)	**Result** (ppm)	**Notes**
Propane	94 - 1877	ND	
Butanes (Isobutane, n-Butane)	183 - 3669	ND	
Methanol	63 - 1251	ND	
Pentane	100 - 1992	ND	
Ethanol	104 - 2079	ND	
Acetone	106 - 2120	ND	
Isopropyl Alcohol	118 - 2354	ND	
Hexane	6 - 128	ND	
Ethyl Acetate	108 - 2165	ND	
Benzene	0.2 - 4.3	ND	
Heptanes	103 - 2065	ND	
Toluene	20 - 394	ND	
Xylenes (m,p,o-Xylenes)	145 - 2895	ND	

Final Approval

Karen Winternheimer
06Dec2023
12:42:00 PM MST
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Sam Smith
06Dec2023
12:44:00 PM MST
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Heavy Metals - Colorado Compliance

Test ID: T000263599
Methods: TM19 (ICP-MS): Heavy Metals

	Dynamic Range (ppm)	**Result** (ppm)	**Notes**
Arsenic	0.05 - 4.61	ND	
Cadmium	0.05 - 4.52	ND	
Mercury	0.05 - 4.50	ND	
Lead	0.05 - 4.79	ND	

Final Approval

Sam Smith
06Dec2023
02:47:00 PM MST
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Karen Winternheimer
06Dec2023
02:52:00 PM MST
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Mycotoxins - Colorado Compliance

Test ID: T000263601
Methods: TM18 (UHPLC-QQQ LCMS/MS): Mycotoxins

	Dynamic Range (ppb)	**Result** (ppb)	**Notes**
Ochratoxin A	3.81 - 130.73	ND	N/A
Aflatoxin B1	1.03 - 32.97	ND	
Aflatoxin B2	0.94 - 33.43	ND	
Aflatoxin G1	1.03 - 33.30	ND	
Aflatoxin G2	1.10 - 33.88	ND	
Total Aflatoxins (B1, B2, G1, and G2)		ND	

Final Approval

Karen Winternheimer
07Dec2023
12:55:00 PM MST
PREPARED BY / DATE

Sam Smith
07Dec2023
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Pesticides

Test ID: T000263597
Methods: TM17

(LC-QQ LC MS/MS)	**Dynamic Range** (ppb)	**Result** (ppb)		**Dynamic Range** (ppb)	**Result** (ppb)
Abamectin	329 - 2679	ND	Malathion	279 - 2664	ND
Acephate	48 - 2797	ND	Metalaxyl	47 - 2702	ND
Acetamiprid	45 - 2749	ND	Methiocarb	49 - 2697	ND
Azoxystrobin	44 - 2707	ND	Methomyl	45 - 2816	ND
Bifenazate	47 - 2673	ND	MGK 264 1	160 - 1609	ND
Boscalid	47 - 2696	ND	MGK 264 2	106 - 1064	ND
Carbaryl	44 - 2731	ND	Myclobutanil	18 - 2637	ND
Carbofuran	43 - 2710	ND	Naled	41 - 2708	ND
Chlorantraniliprole	48 - 2723	ND	Oxamyl	47 - 2800	ND
Chlorpyrifos	21 - 2701	ND	Paclobutrazol	43 - 2733	ND
Clofentezine	256 - 2706	ND	Permethrin	293 - 2660	ND
Diazinon	272 - 2700	ND	Phosmet	41 - 2545	ND
Dichlorvos	288 - 2784	ND	Prophos	304 - 2654	ND
Dimethoate	46 - 2763	ND	Propoxur	42 - 2715	ND
E-Fenpyroximate	290 - 2716	ND	Pyridaben	282 - 2693	ND
Etofenprox	41 - 2674	ND	Spinosad A	29 - 2107	ND
Etoxazole	292 - 2599	ND	Spinosad D	61 - 656	ND
Fenoxycarb	21 - 2706	ND	Spiromesifen	268 - 2623	ND
Fipronil	48 - 2760	ND	Spirotetramat	283 - 2740	ND
Flonicamid	49 - 2803	ND	Spiroxamine 1	16 - 1001	ND
Fludioxonil	316 - 2666	ND	Spiroxamine 2	28 - 1579	ND
Hexythiazox	46 - 2661	ND	Tebuconazole	293 - 2678	ND
Imazalil	265 - 2718	ND	Thiacloprid	46 - 2782	ND
Imidacloprid	48 - 2888	ND	Thiamethoxam	45 - 2802	ND
Kresoxim-methyl	46 - 2702	ND	Trifloxystrobin	42 - 2738	ND

Final Approval

Karen Winternheimer
08Dec2023
10:17:00 AM MST
PREPARED BY / DATE

Sam Smith
08Dec2023
10:24:00 AM MST
APPROVED BY / DATE

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Approved: Paul Gennings QC 12-04-23

https://results.botanacor.com/api/v1/coas/uuid/ff0a7a51-9356-4cb5-97c4-de0ee537f59b

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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