SC Labs®
Formerly Botanacor Labs

CERTIFICATE OF ANALYSIS

Prepared for:
BLUEBIRD BOTANICALS
PO BOX 271724
Louisville, CO USA 80027

SG

Batch ID or Lot Number:	Test, Test ID and Methods:	Matrix:	Page 1 of 6
3272	Various	Finished Product	
Reported:	Started:	Received:	
19Mar2024	18Mar2024	15Mar2024	

Residual Solvents - Colorado Compliance

Test ID: T000274246
Methods: TM04 (GC-MS): Residual Solvents

	Dynamic Range (ppm)	**Result** (ppm)	**Notes**
Propane	75 - 1494	ND	
Butanes (Isobutane, n-Butane)	152 - 3040	ND	
Methanol	65 - 1293	ND	
Pentane	85 - 1703	ND	
Ethanol	94 - 1884	ND	
Acetone	102 - 2049	ND	
Isopropyl Alcohol	108 - 2157	ND	
Hexane	6 - 125	ND	
Ethyl Acetate	105 - 2103	ND	
Benzene	0.2 - 4.4	ND	
Heptanes	98 - 1953	ND	
Toluene	19 - 386	ND	
Xylenes (m,p,o-Xylenes)	140 - 2802	ND	

Final Approval

Karen Winternheimer
19Mar2024
08:39:00 AM MDT
PREPARED BY / DATE

Phillip Travisano
19Mar2024
08:40:00 AM MDT
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Mycotoxins - Colorado Compliance

Test ID: T000274247
Methods: TM18 (UHPLC-QQQ LCMS/MS): Mycotoxins

	Dynamic Range (ppb)	**Result** (ppb)	**Notes**
Ochratoxin A	2.78 - 126.21	ND	N/A
Aflatoxin B1	0.92 - 32.63	ND	
Aflatoxin B2	1.01 - 32.53	ND	
Aflatoxin G1	1.04 - 32.85	ND	
Aflatoxin G2	1.10 - 33.01	ND	
Total Aflatoxins (B1, B2, G1, and G2)		ND	

Final Approval

Karen Winternheimer
19Mar2024
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Phillip Travisano
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Pesticides

Test ID: T000274243
Methods: TM17

(LC-QQ LC MS/MS)	**Dynamic Range** (ppb)	**Result** (ppb)
Abamectin	302 - 2780	ND
Acephate	43 - 2740	ND
Acetamiprid	44 - 2699	ND
Azoxystrobin	42 - 2750	ND
Bifenazate	41 - 2754	ND
Boscalid	49 - 2735	ND
Carbaryl	39 - 2702	ND
Carbofuran	44 - 2686	ND
Chlorantraniliprole	41 - 2772	ND
Chlorpyrifos	38 - 2728	ND
Clofentezine	271 - 2705	ND
Diazinon	272 - 2772	ND
Dichlorvos	260 - 2745	ND
Dimethoate	43 - 2705	ND
E-Fenpyroximate	260 - 2748	ND
Etofenprox	43 - 2750	ND
Etoxazole	280 - 2657	ND
Fenoxycarb	48 - 2684	ND
Fipronil	44 - 2799	ND
Flonicamid	42 - 2809	ND
Fludioxonil	277 - 2677	ND
Hexythiazox	41 - 2759	ND
Imazalil	264 - 2773	ND
Imidacloprid	46 - 2768	ND
Kresoxim-methyl	42 - 2795	ND

	Dynamic Range (ppb)	**Result** (ppb)
Malathion	273 - 2755	ND
Metalaxyl	44 - 2761	ND
Methiocarb	44 - 2757	ND
Methomyl	45 - 2760	ND
MGK 264 1	164 - 1626	ND
MGK 264 2	105 - 1102	ND
Myclobutanil	43 - 2780	ND
Naled	50 - 2668	ND
Oxamyl	42 - 2763	ND
Paclobutrazol	38 - 2728	ND
Permethrin	289 - 2757	ND
Phosmet	41 - 2631	ND
Prophos	287 - 2720	ND
Propoxur	43 - 2694	ND
Pyridaben	280 - 2799	ND
Spinosad A	32 - 2081	ND
Spinosad D	64 - 661	ND
Spiromesifen	304 - 2715	ND
Spirotetramat	281 - 2839	ND
Spiroxamine 1	15 - 1043	ND
Spiroxamine 2	25 - 1607	ND
Tebuconazole	261 - 2795	ND
Thiacloprid	41 - 2724	ND
Thiamethoxam	44 - 2758	ND
Trifloxystrobin	43 - 2699	ND

Final Approval

Karen Winternheimer
20Mar2024
08:28:00 AM MDT
PREPARED BY / DATE

Phillip Travisano
20Mar2024
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Cannabinoids - Colorado Compliance

Test ID: T000274241
Methods: TM14 (HPLC-DAD): Potency – Standard

Cannabinoid Analysis	**LOD** (mg)	**LOQ** (mg)	**Result** (mg)	**Result** (mg/g)	**Notes**
Cannabichromene (CBC)	0.051	0.167	0.714	1.10	# of Servings = 1 Sample Weight=0.65g
Cannabichromenic Acid (CBCA)	0.047	0.152	ND	ND	
Cannabidiol (CBD)	0.154	0.429	19.334	29.72	
Cannabidiolic Acid (CBDA)	0.158	0.440	<LOQ	<LOQ	
Cannabidivarin (CBDV)	0.036	0.102	0.113	0.17	
Cannabidivarinic Acid (CBDVA)	0.066	0.184	ND	ND	
Cannabigerol (CBG)	0.029	0.095	0.569	0.87	
Cannabigerolic Acid (CBGA)	0.121	0.396	ND	ND	
Cannabinol (CBN)	0.038	0.123	ND	ND	
Cannabinolic Acid (CBNA)	0.083	0.270	ND	ND	
Delta 8-Tetrahydrocannabinol (Delta 8-THC)	0.144	0.471	ND	ND	
Delta 9-Tetrahydrocannabinol (Delta 9-THC)	0.131	0.428	0.728	1.12	
Delta 9-Tetrahydrocannabinolic Acid (THCA-A)	0.116	0.379	ND	ND	
Tetrahydrocannabivarin (THCV)	0.026	0.086	ND	ND	
Tetrahydrocannabivarinic Acid (THCVA)	0.102	0.335	ND	ND	
Total Cannabinoids			**21.458**	**32.98**	
Total Potential THC			0.728	1.12	
Total Potential CBD			19.334	29.72	

Final Approval

Karen Winternheimer
20Mar2024
11:31:00 AM MDT
PREPARED BY / DATE

Phillip Travisano
20Mar2024
11:32:00 AM MDT
APPROVED BY / DATE

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Microbial Contaminants - Colorado Compliance

Test ID: T000274244
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
21Mar2024
10:03:00 AM MDT
PREPARED BY / DATE

Brianne Maillot
21Mar2024
12:09:00 PM MDT
APPROVED BY / DATE

Heavy Metals - Colorado Compliance

Test ID: T000274245
Methods: TM19 (ICP-MS): Heavy Metals

	Dynamic Range (ppm)	**Result** (ppm)	Notes
Arsenic	0.05 - 4.51	ND	
Cadmium	0.05 - 4.65	ND	
Mercury	0.05 - 4.62	ND	
Lead	0.05 - 4.55	ND	

Final Approval

Phillip Travisano
22Mar2024
03:30:00 PM MDT
PREPARED BY / DATE

Karen Winternheimer
22Mar2024
03:33:00 PM MDT
APPROVED BY / DATE

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https://results.botanacor.com/api/v1/coas/uuid/abc8d6ab-e49c-4c3c-b9f9-b77732ae1d24

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.

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