SC Labs®
Formerly Botanacor Labs

CERTIFICATE OF ANALYSIS

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

15C-60

Batch ID or Lot Number:	Test, Test ID and Methods:	Matrix:	Page 1 of 5
4310248175	Various	Finished Product	
Reported:	**Started:**	**Received:**	
18Jun2024	17Jun2024	14Jun2024	

Residual Solvents - Colorado Compliance

Test ID: T000283682
Methods: TM04 (GC-MS): Residual Solvents

	Dynamic Range (ppm)	**Result** (ppm)	**Notes**
Propane	72 - 1446	ND	
Butanes (Isobutane, n-Butane)	146 - 2914	ND	
Methanol	57 - 1136	ND	
Pentane	77 - 1533	ND	
Ethanol	86 - 1722	ND	
Acetone	89 - 1779	ND	
Isopropyl Alcohol	95 - 1900	ND	
Hexane	6 - 110	ND	
Ethyl Acetate	92 - 1845	ND	
Benzene	0.2 - 3.7	ND	
Heptanes	85 - 1698	ND	
Toluene	17 - 333	ND	
Xylenes (m,p,o-Xylenes)	122 - 2447	ND	

Final Approval

Karen Winternheimer
18Jun2024
10:14:00 AM MDT
PREPARED BY / DATE

Sam Smith
18Jun2024
10:13:00 AM MDT
APPROVED BY / DATE

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Cannabinoids - Colorado Compliance

Test ID: T000283678
Methods: TM14 (HPLC-DAD): Potency – Standard

Cannabinoid Analysis	**LOD** (mg/mL)	**LOQ** (mg/mL)	**Result** (mg/mL)	**Result** (mg/g)	**Notes**
Cannabichromene (CBC)	0.047	0.175	ND	ND	Density = 0.945g/mL
Cannabichromenic Acid (CBCA)	0.043	0.160	ND	ND	
Cannabidiol (CBD)	0.169	0.467	30.791	32.58	
Cannabidiolic Acid (CBDA)	0.174	0.479	ND	ND	
Cannabidivarin (CBDV)	0.040	0.110	<LOQ	<LOQ	
Cannabidivarinic Acid (CBDVA)	0.073	0.200	ND	ND	
Cannabigerol (CBG)	0.026	0.099	ND	ND	
Cannabigerolic Acid (CBGA)	0.110	0.415	ND	ND	
Cannabinol (CBN)	0.034	0.130	ND	ND	
Cannabinolic Acid (CBNA)	0.075	0.283	ND	ND	
Delta 8-Tetrahydrocannabinol (Delta 8-THC)	0.132	0.495	ND	ND	
Delta 9-Tetrahydrocannabinol (Delta 9-THC)	0.120	0.449	ND	ND	
Delta 9-Tetrahydrocannabinolic Acid (THCA-A)	0.106	0.398	ND	ND	
Tetrahydrocannabivarin (THCV)	0.024	0.090	ND	ND	
Tetrahydrocannabivarinic Acid (THCVA)	0.093	0.351	ND	ND	
Total Cannabinoids			**30.791**	**32.58**	
Total Potential THC			ND	ND	
Total Potential CBD			30.791	32.58	

Final Approval

Karen Winternheimer
19Jun2024
10:11:00 AM MDT
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Sam Smith
19Jun2024
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Heavy Metals - Colorado Compliance

Test ID: T000283681
Methods: TM19 (ICP-MS): Heavy

Metals	**Dynamic Range** (ppm)	**Result** (ppm)	**Notes**
Arsenic	0.04 - 4.42	ND	
Cadmium	0.05 - 4.50	ND	
Mercury	0.05 - 4.65	ND	
Lead	0.05 - 4.68	ND	

Final Approval

Karen Winternheimer
20Jun2024
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Sam Smith
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Mycotoxins - Colorado Compliance

Test ID: T000283683
Methods: TM18 (UHPLC-QQQ LCMS/MS): Mycotoxins

	Dynamic Range (ppb)	**Result** (ppb)	**Notes**
Ochratoxin A	2.26 - 132.01	ND	N/A
Aflatoxin B1	0.97 - 33.29	ND	
Aflatoxin B2	1.07 - 32.94	ND	
Aflatoxin G1	1.00 - 33.00	ND	
Aflatoxin G2	1.16 - 33.33	ND	
Total Aflatoxins (B1, B2, G1, and G2)		ND	

Final Approval

Sam Smith
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Karen Winternheimer
20Jun2024
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Pesticides

Test ID: T000283679
Methods: TM17

(LC-QQ LC MS/MS)	**Dynamic Range** (ppb)	**Result** (ppb)
Abamectin	327 - 2698	ND
Acephate	40 - 2752	ND
Acetamiprid	42 - 2726	ND
Azoxystrobin	44 - 2656	ND
Bifenazate	44 - 2645	ND
Boscalid	45 - 2686	ND
Carbaryl	39 - 2720	ND
Carbofuran	44 - 2670	ND
Chlorantraniliprole	41 - 2711	ND
Chlorpyrifos	40 - 2734	ND
Clofentezine	277 - 2704	ND
Diazinon	286 - 2682	ND
Dichlorvos	276 - 2767	ND
Dimethoate	41 - 2727	ND
E-Fenpyroximate	278 - 2695	ND
Etofenprox	42 - 2670	ND
Etoxazole	278 - 2600	ND
Fenoxycarb	45 - 2682	ND
Fipronil	42 - 2714	ND
Flonicamid	41 - 2792	ND
Fludioxonil	276 - 2702	ND
Hexythiazox	40 - 2718	ND
Imazalil	284 - 2702	ND
Imidacloprid	42 - 2746	ND
Kresoxim-methyl	43 - 2697	ND

	Dynamic Range (ppb)	**Result** (ppb)
Malathion	286 - 2682	ND
Metalaxyl	41 - 2645	ND
Methiocarb	41 - 2707	ND
Methomyl	39 - 2793	ND
MGK 264 1	162 - 1562	ND
MGK 264 2	114 - 1086	ND
Myclobutanil	46 - 2676	ND
Naled	45 - 2675	ND
Oxamyl	42 - 2791	ND
Paclobutrazol	43 - 2662	ND
Permethrin	289 - 2716	ND
Phosmet	42 - 2544	ND
Prophos	287 - 2712	ND
Propoxur	44 - 2692	ND
Pyridaben	285 - 2692	ND
Spinosad A	33 - 2056	ND
Spinosad D	64 - 647	ND
Spiromesifen	276 - 2658	ND
Spirotetramat	304 - 2724	ND
Spiroxamine 1	16 - 1012	ND
Spiroxamine 2	24 - 1590	ND
Tebuconazole	300 - 2651	ND
Thiacloprid	42 - 2769	ND
Thiamethoxam	42 - 2752	ND
Trifloxystrobin	44 - 2697	ND

Final Approval

Samantha Smith
Sam Smith
21Jun2024
08:31:00 AM MDT
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K Winternheimer
Karen Winternheimer
21Jun2024
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APPROVED BY / DATE

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Microbial Contaminants - Colorado Compliance

Test ID: T000283680
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

Brianne Maillot
20Jun2024
05:18:00 PM MDT
PREPARED BY / DATE

Brett Hudson
21Jun2024
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APPROVED BY / DATE

https://results.botanacor.com/api/v1/coas/uuid/297d421b-2da5-4dd7-951d-b8e6df5b9953

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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