

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

DS-30

Batch ID or Lot Number: 4310246247	Test, Test ID and Methods: Various	Matrix: Finished Product	Page 1 of 6
Reported: 12Aug2024	Started: 09Aug2024	Received: 08Aug2024	

Pesticides

Test ID: T000287686

Methods: TM17

(LC-QQ LC MS/MS)	Dynamic Range (ppb)	Result (ppb)
Abamectin	480 - 2797	ND
Acephate	48 - 2753	ND
Acetamiprid	46 - 2720	ND
Azoxystrobin	45 - 2696	ND
Bifenazate	47 - 2727	ND
Boscalid	53 - 2670	ND
Carbaryl	44 - 2690	ND
Carbofuran	49 - 2697	ND
Chlorantraniliprole	46 - 2696	ND
Chlorpyrifos	76 - 2706	ND
Clofentezine	291 - 2720	ND
Diazinon	301 - 2720	ND
Dichlorvos	272 - 2784	ND
Dimethoate	47 - 2747	ND
E-Fenpyroximate	287 - 2682	ND
Etofenprox	46 - 2668	ND
Etoxazole	279 - 2598	ND
Fenoxycarb	41 - 2711	ND
Fipronil	60 - 2725	ND
Flonicamid	48 - 2791	ND
Fludioxonil	289 - 2690	ND
Hexythiazox	50 - 2689	ND
Imazalil	292 - 2713	ND
Imidacloprid	43 - 2771	ND
Kresoxim-methyl	56 - 2736	ND

	Dynamic Range (ppb)	Result (ppb)
Malathion	289 - 2707	ND
Metalaxyl	47 - 2720	ND
Methiocarb	48 - 2697	ND
Methomyl	47 - 2796	ND
MGK 264 1	160 - 1603	ND
MGK 264 2	119 - 1077	ND
Myclobutanil	52 - 2686	ND
Naled	55 - 2690	ND
Oxamyl	46 - 2791	ND
Paclobutrazol	47 - 2691	ND
Permethrin	282 - 2703	ND
Phosmet	49 - 2556	ND
Prophos	258 - 2716	ND
Propoxur	48 - 2687	ND
Pyridaben	286 - 2700	ND
Spinosad A	37 - 2062	ND
Spinosad D	68 - 649	ND
Spiromesifen	270 - 2649	ND
Spirotetramat	304 - 2732	ND
Spiroxamine 1	18 - 1014	ND
Spiroxamine 2	28 - 1570	ND
Tebuconazole	306 - 2704	ND
Thiacloprid	46 - 2774	ND
Thiamethoxam	46 - 2784	ND
Trifloxystrobin	48 - 2678	ND

Final Approval



Karen Winternheimer
12Aug2024
08:06:00 AM MDT

PREPARED BY / DATE



Sam Smith
12Aug2024
08:10:00 AM MDT

APPROVED BY / DATE

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Heavy Metals - Colorado Compliance

Test ID: T000287688

Methods: TM19 (ICP-MS): Heavy

Metals	Dynamic Range (ppm)	Result (ppm)	Notes
Arsenic	0.05 - 4.58	ND	
Cadmium	0.05 - 4.65	ND	
Mercury	0.05 - 4.63	ND	
Lead	0.05 - 4.71	ND	

Final Approval


Judith Marquez
13Aug2024
10:42:00 AM MDT

PREPARED BY / DATE


Sam Smith
13Aug2024
11:56:00 AM MDT

APPROVED BY / DATE

Cannabinoids - Colorado Compliance

Test ID: T000287685

Methods: TM14 (HPLC-DAD): Potency – Standard

Cannabinoid Analysis	LOD (mg/mL)	LOQ (mg/mL)	Result (mg/mL)	Result (mg/g)	Notes
Cannabichromene (CBC)	0.048	0.166	0.733	0.78	Density = 0.945g/mL
Cannabichromenic Acid (CBCA)	0.044	0.152	ND	ND	
Cannabidiol (CBD)	0.217	0.508	24.632	26.07	
Cannabidiolic Acid (CBDA)	0.223	0.521	<LOQ	<LOQ	
Cannabidivarin (CBDV)	0.051	0.120	0.137	0.14	
Cannabidivarinic Acid (CBDVA)	0.093	0.217	ND	ND	
Cannabigerol (CBG)	0.027	0.094	0.755	0.80	
Cannabigerolic Acid (CBGA)	0.113	0.395	ND	ND	
Cannabinol (CBN)	0.035	0.123	6.027	6.38	
Cannabinolic Acid (CBNA)	0.077	0.270	ND	ND	
Delta 8-Tetrahydrocannabinol (Delta 8-THC)	0.135	0.471	ND	ND	
Delta 9-Tetrahydrocannabinol (Delta 9-THC)	0.122	0.427	0.552	0.58	
Delta 9-Tetrahydrocannabinolic Acid (THCA-A)	0.108	0.379	ND	ND	
Tetrahydrocannabivarin (THCV)	0.025	0.086	ND	ND	
Tetrahydrocannabivarinic Acid (THCVA)	0.096	0.334	ND	ND	
Total Cannabinoids			32.836	34.75	
Total Potential THC			0.552	0.58	
Total Potential CBD			24.632	26.07	

Final Approval


Sam Smith
14Aug2024
12:34:00 PM MDT

PREPARED BY / DATE


Karen Winternheimer
14Aug2024
12:37:00 PM MDT

APPROVED BY / DATE

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Residual Solvents - Colorado Compliance

Test ID: T000287689

Methods: TM04 (GC-MS): Residual

Solvents	Dynamic Range (ppm)	Result (ppm)	Notes
Propane	88 - 1752	ND	
Butanes (Isobutane, n-Butane)	176 - 3515	ND	
Methanol	63 - 1253	ND	
Pentane	91 - 1821	ND	
Ethanol	93 - 1853	ND	
Acetone	101 - 2018	ND	
Isopropyl Alcohol	103 - 2061	ND	
Hexane	6 - 124	ND	
Ethyl Acetate	103 - 2064	ND	
Benzene	0.2 - 4.1	ND	
Heptanes	98 - 1955	ND	
Toluene	19 - 371	ND	
Xylenes (m,p,o-Xylenes)	131 - 2611	ND	

Final Approval



Karen Winternheimer
14Aug2024
08:44:00 AM MDT

PREPARED BY / DATE



Sam Smith
14Aug2024
08:46:00 AM MDT

APPROVED BY / DATE

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Cannabinoids - Colorado Compliance

Test ID: T000287684

Methods: TM14 (HPLC-DAD): Potency – Standard

Cannabinoid Analysis

	LOD (mg/mL)	LOQ (mg/mL)	Result (mg/mL)	Result (mg/g)	Notes
Cannabichromene (CBC)	0.051	0.178	0.739	0.78	Density = 0.945g/mL
Cannabichromenic Acid (CBCA)	0.047	0.163	ND	ND	
Cannabidiol (CBD)	0.233	0.543	26.052	27.57	
Cannabidiolic Acid (CBDA)	0.239	0.557	<LOQ	<LOQ	
Cannabidivarin (CBDV)	0.055	0.129	<LOQ	<LOQ	
Cannabidivarinic Acid (CBDVA)	0.100	0.233	ND	ND	
Cannabigerol (CBG)	0.029	0.101	ND	ND	
Cannabigerolic Acid (CBGA)	0.121	0.423	ND	ND	
Cannabinol (CBN)	0.038	0.132	6.139	6.50	
Cannabinolic Acid (CBNA)	0.083	0.288	ND	ND	
Delta 8-Tetrahydrocannabinol (Delta 8-THC)	0.144	0.504	ND	ND	
Delta 9-Tetrahydrocannabinol (Delta 9-THC)	0.131	0.457	0.610	0.65	
Delta 9-Tetrahydrocannabinolic Acid (THCA-A)	0.116	0.405	ND	ND	
Tetrahydrocannabivarin (THCV)	0.026	0.092	ND	ND	
Tetrahydrocannabivarinic Acid (THCVA)	0.102	0.357	ND	ND	
Total Cannabinoids			33.540	35.50	
Total Potential THC			0.610	0.65	
Total Potential CBD			26.052	27.57	

Final Approval


Sam Smith
14Aug2024
12:34:00 PM MDT
PREPARED BY / DATE


Karen Winternheimer
14Aug2024
12:37:00 PM MDT
APPROVED BY / DATE

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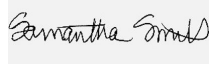
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Mycotoxins - Colorado Compliance

Test ID: T000287690
Methods: TM18 (UHPLC-QQQ
LCMS/MS): Mycotoxins

	Dynamic Range (ppb)	Result (ppb)	Notes
Ochratoxin A	1.30 - 121.13	ND	N/A
Aflatoxin B1	0.96 - 31.35	ND	
Aflatoxin B2	1.11 - 31.13	ND	
Aflatoxin G1	1.23 - 31.04	ND	
Aflatoxin G2	1.91 - 31.07	ND	
Total Aflatoxins (B1, B2, G1, and G2)		ND	

Final Approval


Sam Smith
15Aug2024
11:25:00 AM MDT
PREPARED BY / DATE


Karen Winternheimer
15Aug2024
11:26:00 AM MDT
APPROVED BY / DATE

Microbial Contaminants - Colorado Compliance

Test ID: T000287687
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


Nora Langer
12Aug2024
04:38:00 PM MDT
PREPARED BY / DATE


Brett Hudson
20Aug2024
03:17:00 PM MDT
APPROVED BY / DATE

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<https://results.botanacor.com/api/v1/coas/uuid/357bca27-9b5e-418a-b356-0853cc9182aa>

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 $\times$ (0.877)) and Total CBD = CBD + (CBDa $\times$ (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 $\times$ (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.

Testing results are based solely upon the sample submitted to SC Laboratories, Inc., in the condition it was received. SC Laboratories, Inc., warrants that all analytical work is conducted professionally in accordance with all applicable standard laboratory practices using validated methods. Data was generated using an unbroken chain of comparison to NIST traceable Reference Standards and Certified Reference Materials. This report may not be reproduced, except in full, without the written approval of SC Laboratories, Inc. ISO/IEC 17025:2017 A2LA Cert #: 4329.02 Chemical; 4329.03 Biological. Some tests listed on this COA may not be within our scope of A2LA accreditation. Please visit [A2LA for more details](#).



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