

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

COX-30

Batch ID or Lot Number: 4310688011	Test, Test ID and Methods: Various	Matrix: Solution	Page 1 of 6
Reported: 26Apr2024	Started: 25Apr2024	Received: 25Apr2024	

**Cannabinoids - Colorado
Compliance**

Test ID: T000278434
Methods: TM14 (HPLC-DAD): Potency – Standard
Cannabinoid Analysis

	LOD (mg/mL)	LOQ (mg/mL)	Result (mg/mL)	Result (mg/g)	Notes
Cannabichromene (CBC)	0.060	0.190	0.719	0.76	Density = 0.945g/mL
Cannabichromenic Acid (CBCA)	0.055	0.174	0.967	1.02	
Cannabidiol (CBD)	0.178	0.506	26.815	28.38	
Cannabidiolic Acid (CBDA)	0.182	0.519	21.512	22.76	
Cannabidivarin (CBDV)	0.042	0.120	<LOQ	<LOQ	
Cannabidivarinic Acid (CBDVA)	0.076	0.216	<LOQ	<LOQ	
Cannabigerol (CBG)	0.034	0.108	0.688	0.73	
Cannabigerolic Acid (CBGA)	0.142	0.451	ND	ND	
Cannabinol (CBN)	0.044	0.141	ND	ND	
Cannabinolic Acid (CBNA)	0.097	0.308	ND	ND	
Delta 8-Tetrahydrocannabinol (Delta 8-THC)	0.169	0.537	ND	ND	
Delta 9-Tetrahydrocannabinol (Delta 9-THC)	0.153	0.488	1.239	1.31	
Delta 9-Tetrahydrocannabinolic Acid (THCA-A)	0.136	0.432	ND	ND	
Tetrahydrocannabivarin (THCV)	0.031	0.098	<LOQ	<LOQ	
Tetrahydrocannabivarinic Acid (THCVA)	0.120	0.381	ND	ND	
Total Cannabinoids			51.940	54.96	
Total Potential THC			1.239	1.31	
Total Potential CBD			45.681	48.34	

Final Approval



Karen Winternheimer
26Apr2024
11:10:00 AM MDT

PREPARED BY / DATE



Phillip Travisano
26Apr2024
12:18:00 PM MDT

APPROVED BY / DATE

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**Cannabinoids - Colorado
Compliance**

Test ID: T000278433

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

Cannabinoid Analysis

	LOD (mg/mL)	LOQ (mg/mL)	Result (mg/mL)	Result (mg/g)	Notes
Cannabichromene (CBC)	0.061	0.195	0.714	0.76	Density = 0.945g/mL
Cannabichromenic Acid (CBCA)	0.056	0.178	0.955	1.01	
Cannabidiol (CBD)	0.182	0.518	26.634	28.18	
Cannabidiolic Acid (CBDA)	0.187	0.531	21.373	22.62	
Cannabidivarin (CBDV)	0.043	0.122	<LOQ	<LOQ	
Cannabidivarinic Acid (CBDVA)	0.078	0.222	<LOQ	<LOQ	
Cannabigerol (CBG)	0.035	0.110	0.675	0.71	
Cannabigerolic Acid (CBGA)	0.145	0.462	ND	ND	
Cannabinol (CBN)	0.045	0.144	ND	ND	
Cannabinolic Acid (CBNA)	0.099	0.315	ND	ND	
Delta 8-Tetrahydrocannabinol (Delta 8-THC)	0.173	0.550	ND	ND	
Delta 9-Tetrahydrocannabinol (Delta 9-THC)	0.157	0.500	1.221	1.29	
Delta 9-Tetrahydrocannabinolic Acid (THCA-A)	0.139	0.443	ND	ND	
Tetrahydrocannabivarin (THCV)	0.032	0.100	<LOQ	<LOQ	
Tetrahydrocannabivarinic Acid (THCVA)	0.123	0.390	ND	ND	
Total Cannabinoids			51.572	54.57	
Total Potential THC			1.221	1.29	
Total Potential CBD			45.378	48.02	

Final Approval



Karen Winternheimer
26Apr2024
11:10:00 AM MDT

PREPARED BY / DATE



Phillip Travisano
26Apr2024
12:18:00 PM MDT

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Microbial Contaminants - Colorado Compliance

Test ID: T000278436

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
<i>Salmonella</i>	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
28Apr2024
12:00:00 PM MDT



Brianne Maillot
29Apr2024
11:18:00 AM MDT

PREPARED BY / DATE

APPROVED BY / DATE

Heavy Metals - Colorado Compliance

Test ID: T000278437

Methods: TM19 (ICP-MS): Heavy

Metals	Dynamic Range (ppm)	Result (ppm)	Notes
Arsenic	0.05 - 4.74	ND	
Cadmium	0.05 - 4.91	ND	
Mercury	0.05 - 4.77	ND	
Lead	0.01 - 0.79	ND	

Final Approval



Karen Winternheimer
30Apr2024
04:38:00 PM MDT



Colin Hendrickson
30Apr2024
05:08:00 PM MDT

PREPARED BY / DATE

APPROVED BY / DATE

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**Residual Solvents -
Colorado Compliance**

Test ID: T000278438
Methods: TM04 (GC-MS): Residual

Solvents	Dynamic Range (ppm)	Result (ppm)	Notes
Propane	72 - 1441	ND	
Butanes (Isobutane, n-Butane)	150 - 3007	ND	
Methanol	58 - 1170	ND	
Pentane	81 - 1621	ND	
Ethanol	91 - 1813	ND	
Acetone	94 - 1886	ND	
Isopropyl Alcohol	100 - 1991	ND	
Hexane	6 - 118	ND	
Ethyl Acetate	98 - 1953	ND	
Benzene	0.2 - 3.9	ND	
Heptanes	91 - 1818	ND	
Toluene	18 - 353	ND	
Xylenes (m,p,o-Xylenes)	128 - 2550	ND	

Final Approval



Karen Winternheimer
01May2024
08:18:00 AM MDT

PREPARED BY / DATE



Phillip Travisano
01May2024
08:19:00 AM MDT

APPROVED BY / DATE

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Pesticides

Test ID: T000278435

Methods: TM17

(LC-QQ LC MS/MS)	Dynamic Range (ppb)	Result (ppb)		Dynamic Range (ppb)	Result (ppb)	
Abamectin	254 - 2693	ND		Malathion	279 - 2683	ND
Acephate	40 - 2756	ND		Metalaxyl	40 - 2689	ND
Acetamiprid	37 - 2694	ND		Methiocarb	41 - 2740	ND
Azoxystrobin	43 - 2687	ND		Methomyl	37 - 2756	ND
Bifenazate	41 - 2679	ND		MGK 264 1	163 - 1640	ND
Boscalid	37 - 2738	ND		MGK 264 2	106 - 1093	ND
Carbaryl	40 - 2716	ND		Myclobutanil	42 - 2774	ND
Carbofuran	40 - 2713	ND		Naled	45 - 2668	ND
Chlorantraniliprole	36 - 2729	ND		Oxamyl	38 - 2750	ND
Chlorpyrifos	46 - 2784	ND		Paclobutrazol	40 - 2719	ND
Clofentezine	281 - 2757	ND		Permethrin	270 - 2774	ND
Diazinon	274 - 2701	ND		Phosmet	40 - 2557	ND
Dichlorvos	264 - 2713	ND		Prophos	288 - 2747	ND
Dimethoate	37 - 2714	ND		Propoxur	41 - 2721	ND
E-Fenpyroximate	257 - 2806	ND		Pyridaben	284 - 2801	ND
Etofenprox	41 - 2768	ND		Spinosad A	32 - 2096	ND
Etoxazole	286 - 2697	ND		Spinosad D	68 - 672	ND
Fenoxycarb	43 - 2663	ND		Spiromesifen	285 - 2747	ND
Fipronil	56 - 2801	ND		Spirotetramat	291 - 2781	ND
Flonicamid	40 - 2738	ND		Spiroxamine 1	15 - 1028	ND
Fludioxonil	313 - 2754	ND		Spiroxamine 2	23 - 1621	ND
Hexythiazox	42 - 2800	ND		Tebuconazole	274 - 2683	ND
Imazalil	276 - 2730	ND		Thiacloprid	40 - 2712	ND
Imidacloprid	43 - 2767	ND		Thiamethoxam	39 - 2752	ND
Kresoxim-methyl	41 - 2741	ND		Trifloxystrobin	42 - 2740	ND

Final Approval


Karen Winternheimer
03May2024
10:16:00 AM MDT
PREPARED BY / DATE


Phillip Travisano
03May2024
10:19:00 AM MDT
APPROVED BY / DATE

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Mycotoxins - Colorado Compliance

Test ID: T000278439

Methods: TM18 (UHPLC-QQQ

LCMS/MS): Mycotoxins

	Dynamic Range (ppb)	Result (ppb)	Notes
Ochratoxin A	2.46 - 131.31	ND	N/A
Aflatoxin B1	0.99 - 32.69	ND	
Aflatoxin B2	1.09 - 32.79	ND	
Aflatoxin G1	0.93 - 32.95	ND	
Aflatoxin G2	1.09 - 33.17	ND	
Total Aflatoxins (B1, B2, G1, and G2)		ND	

Final Approval



Karen Winternheimer
06May2024
02:39:00 PM MDT

PREPARED BY / DATE



Colin Hendrickson
06May2024
02:40:00 PM MDT

APPROVED BY / DATE



<https://results.botanacor.com/api/v1/coas/uuid/baf67e25-569c-4179-81e8-a6df11aad22c>

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: 10² = 100 CFU, 10³ = 1,000 CFU, 10⁴ = 10,000 CFU, 10⁵ = 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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