

Prepared for:

**BLUEBIRD BOTANICALS**

PO BOX 271724

Louisville, CO USA 80027

**CLX-60**

Batch ID or Lot Number: <b>4310247077</b>	Test, Test ID and Methods: Various	Matrix: Solution	Page 1 of 7
Reported: <b>26Mar2024</b>	Started: 25Mar2024	Received: 21Mar2024	

## Cannabinoids - Colorado Compliance

Test ID: T000274386

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

Cannabinoid Analysis

	LOD (mg/mL)	LOQ (mg/mL)	Result (mg/mL)	Result (mg/g)	Notes
Cannabichromene (CBC)	0.055	0.183	1.675	1.77	Density = 0.945g/mL
Cannabichromenic Acid (CBCA)	0.051	0.167	ND	ND	
Cannabidiol (CBD)	0.197	0.535	49.427	52.30	
Cannabidiolic Acid (CBDA)	0.202	0.548	<LOQ	<LOQ	
Cannabidivarin (CBDV)	0.047	0.126	0.167	0.18	
Cannabidivarinic Acid (CBDVA)	0.084	0.229	ND	ND	
Cannabigerol (CBG)	0.031	0.104	1.562	1.65	
Cannabigerolic Acid (CBGA)	0.131	0.434	ND	ND	
Cannabinol (CBN)	0.041	0.135	<LOQ	<LOQ	
Cannabinolic Acid (CBNA)	0.090	0.296	ND	ND	
Delta 8-Tetrahydrocannabinol (Delta 8-THC)	0.156	0.517	ND	ND	
Delta 9-Tetrahydrocannabinol (Delta 9-THC)	0.142	0.470	0.997	1.06	
Delta 9-Tetrahydrocannabinolic Acid (THCA-A)	0.126	0.416	ND	ND	
Tetrahydrocannabivarin (THCV)	0.029	0.094	ND	ND	
Tetrahydrocannabivarinic Acid (THCVA)	0.111	0.367	ND	ND	
<b>Total Cannabinoids</b>			<b>53.828</b>	<b>56.96</b>	
Total Potential THC			0.997	1.06	
Total Potential CBD			49.427	52.30	

### Final Approval



Karen Winternheimer  
26Mar2024  
08:58:00 AM MDT

PREPARED BY / DATE



Phillip Travisano  
26Mar2024  
09:02:00 AM MDT

APPROVED BY / DATE

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## Cannabinoids - Colorado Compliance

Test ID: T000274387

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

Cannabinoid Analysis

	LOD (mg/mL)	LOQ (mg/mL)	Result (mg/mL)	Result (mg/g)	Notes
Cannabichromene (CBC)	0.055	0.182	1.664	1.76	Density = 0.945g/mL
Cannabichromenic Acid (CBCA)	0.050	0.167	ND	ND	
Cannabidiol (CBD)	0.197	0.533	48.938	51.79	
Cannabidiolic Acid (CBDA)	0.202	0.546	<LOQ	<LOQ	
Cannabidivarin (CBDV)	0.047	0.126	0.189	0.20	
Cannabidivarinic Acid (CBDVA)	0.084	0.228	ND	ND	
Cannabigerol (CBG)	0.031	0.103	1.569	1.66	
Cannabigerolic Acid (CBGA)	0.131	0.433	ND	ND	
Cannabinol (CBN)	0.041	0.135	ND	ND	
Cannabinolic Acid (CBNA)	0.089	0.295	ND	ND	
Delta 8-Tetrahydrocannabinol (Delta 8-THC)	0.156	0.515	ND	ND	
Delta 9-Tetrahydrocannabinol (Delta 9-THC)	0.141	0.468	0.990	1.05	
Delta 9-Tetrahydrocannabinolic Acid (THCA-A)	0.125	0.415	ND	ND	
Tetrahydrocannabivarin (THCV)	0.028	0.094	ND	ND	
Tetrahydrocannabivarinic Acid (THCVA)	0.111	0.366	ND	ND	
<b>Total Cannabinoids</b>			<b>53.350</b>	<b>56.46</b>	
Total Potential THC			0.990	1.05	
Total Potential CBD			48.938	51.79	

### Final Approval



Karen Winternheimer  
26Mar2024  
08:58:00 AM MDT

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Phillip Travisano  
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## Residual Solvents - Colorado Compliance

Test ID: T000274391

Methods: TM04 (GC-MS): Residual

Solvents	Dynamic Range (ppm)	Result (ppm)	Notes
Propane	104 - 2077	ND	
Butanes (Isobutane, n-Butane)	181 - 3623	ND	
Methanol	65 - 1304	ND	
Pentane	85 - 1691	ND	
Ethanol	96 - 1916	ND	
Acetone	103 - 2064	ND	
Isopropyl Alcohol	107 - 2141	ND	
Hexane	6 - 126	ND	
Ethyl Acetate	105 - 2091	ND	
Benzene	0.2 - 4.2	ND	
Heptanes	96 - 1925	ND	
Toluene	19 - 376	ND	
Xylenes (m,p,o-Xylenes)	134 - 2671	ND	

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Karen Winternheimer  
26Mar2024  
02:40:00 PM MDT

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Phillip Travisano  
26Mar2024  
02:41:00 PM MDT

APPROVED BY / DATE

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## Microbial Contaminants - Colorado Compliance

Test ID: T000274389

Methods: TM25 (qPCR) TM24, TM26,

TM27 (Culture Plating): Microbial

(Colorado Panel)

	Method	LOD	Quantitation Range	Result	Notes
STEC	TM25: PCR	10 <sup>0</sup> CFU/25g	NA	Absent	Free from visual mold, mildew, and foreign matter
<i>Salmonella</i>	TM25: PCR	10 <sup>0</sup> CFU/25g	NA	Absent	
Total Yeast and Mold*	TM24: Culture Plating	10 <sup>1</sup> CFU/g	1.0x10 <sup>2</sup> - 1.5x10 <sup>4</sup>	None Detected	
Total Aerobic Count*	TM26: Culture Plating	10 <sup>2</sup> CFU/g	1.0x10 <sup>3</sup> - 1.5x10 <sup>5</sup>	None Detected	
Total Coliforms*	TM27: Culture Plating	10 <sup>1</sup> CFU/g	1.0x10 <sup>2</sup> - 1.5x10 <sup>4</sup>	None Detected	

### Final Approval



Brett Hudson  
25Mar2024  
03:02:00 PM MDT



Brianne Maillot  
26Mar2024  
06:41:00 PM MDT

PREPARED BY / DATE

APPROVED BY / DATE

## Mycotoxins - Colorado Compliance

Test ID: T000274392

Methods: TM18 (UHPLC-QQQ

LCMS/MS): Mycotoxins

	Dynamic Range (ppb)	Result (ppb)	Notes
Ochratoxin A	2.46 - 135.96	ND	N/A
Aflatoxin B1	0.94 - 34.34	ND	
Aflatoxin B2	1.00 - 34.21	ND	
Aflatoxin G1	0.97 - 33.95	ND	
Aflatoxin G2	0.94 - 34.50	ND	
Total Aflatoxins (B1, B2, G1, and G2)		ND	

### Final Approval



Karen Winternheimer  
28Mar2024  
08:48:00 AM MDT



Phillip Travisano  
28Mar2024  
08:49:00 AM MDT

PREPARED BY / DATE

APPROVED BY / DATE

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## Heavy Metals - Colorado Compliance

Test ID: T000274390

Methods: TM19 (ICP-MS): Heavy

Metals	Dynamic Range (ppm)	Result (ppm)	Notes
Arsenic	0.05 - 4.64	ND	
Cadmium	0.04 - 4.40	ND	
Mercury	0.04 - 4.42	ND	
Lead	0.04 - 4.38	ND	

### Final Approval



Phillip Travisano  
28Mar2024  
03:29:00 PM MDT

PREPARED BY / DATE



Colin Hendrickson  
28Mar2024  
05:35:00 PM MDT

APPROVED BY / DATE

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**Pesticides**

Test ID: T000274388

Methods: TM17

(LC-QQ LC MS/MS)	Dynamic Range (ppb)	Result (ppb)
Abamectin	353 - 2766	ND
Acephate	40 - 2715	ND
Acetamiprid	42 - 2686	ND
Azoxystrobin	43 - 2696	ND
Bifenazate	40 - 2677	ND
Boscalid	50 - 2724	ND
Carbaryl	40 - 2687	ND
Carbofuran	42 - 2683	ND
Chlorantraniliprole	46 - 2776	ND
Chlorpyrifos	44 - 2738	ND
Clofentezine	281 - 2731	ND
Diazinon	281 - 2691	ND
Dichlorvos	270 - 2733	ND
Dimethoate	42 - 2686	ND
E-Fenpyroximate	261 - 2758	ND
Etofenprox	43 - 2727	ND
Etoxazole	277 - 2656	ND
Fenoxycarb	44 - 2705	ND
Fipronil	41 - 2620	ND
Flonicamid	40 - 2793	ND
Fludioxonil	255 - 2762	ND
Hexythiazox	41 - 2755	ND
Imazalil	282 - 2730	ND
Imidacloprid	48 - 2778	ND
Kresoxim-methyl	42 - 2735	ND

	Dynamic Range (ppb)	Result (ppb)
Malathion	287 - 2690	ND
Metalaxyl	45 - 2665	ND
Methiocarb	41 - 2782	ND
Methomyl	41 - 2736	ND
MGK 264 1	157 - 1604	ND
MGK 264 2	104 - 1096	ND
Myclobutanil	39 - 2780	ND
Naled	44 - 2666	ND
Oxamyl	40 - 2750	ND
Paclobutrazol	39 - 2687	ND
Permethrin	266 - 2762	ND
Phosmet	41 - 2559	ND
Prophos	288 - 2753	ND
Propoxur	43 - 2696	ND
Pyridaben	281 - 2768	ND
Spinosad A	34 - 2079	ND
Spinosad D	65 - 655	ND
Spiromesifen	269 - 2727	ND
Spirotetramat	282 - 2740	ND
Spiroxamine 1	15 - 1057	ND
Spiroxamine 2	23 - 1635	ND
Tebuconazole	284 - 2722	ND
Thiacloprid	41 - 2704	ND
Thiamethoxam	40 - 2730	ND
Trifloxystrobin	42 - 2699	ND

**Final Approval**



Karen Winternheimer  
29Mar2024  
01:11:00 PM MDT

PREPARED BY / DATE



Phillip Travisano  
29Mar2024  
01:13:00 PM MDT

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<https://results.botanacor.com/api/v1/coas/uuid/99a302c4-b11a-409d-abda-6297faf5b21d>

## 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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