

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

## CLX-60


Batch ID or Lot Number: <b>3310247219</b>	Test, Test ID and Methods: Various	Matrix: Concentrate	Page 1 of 7
Reported: <b>06Aug2023</b>	Started: 04Aug2023	Received: 04Aug2023	


## Residual Solvents - Colorado Compliance

Test ID: T000251494  
Methods: TM04 (GC-MS): Residual

Solvents	Dynamic Range (ppm)	Result (ppm)	Notes
Propane	105 - 2090	ND	
Butanes (Isobutane, n-Butane)	204 - 4090	ND	
Methanol	64 - 1289	ND	
Pentane	104 - 2073	ND	
Ethanol	103 - 2060	ND	
Acetone	103 - 2057	ND	
Isopropyl Alcohol	107 - 2149	ND	
Hexane	6 - 126	ND	
Ethyl Acetate	105 - 2094	ND	
Benzene	0.2 - 4.3	ND	
Heptanes	104 - 2085	ND	
Toluene	19 - 373	ND	
Xylenes (m,p,o-Xylenes)	138 - 2756	ND	

### Final Approval

  
Karen Winternheimer  
06Aug2023  
10:32:00 AM MDT  
PREPARED BY / DATE

  
Sam Smith  
06Aug2023  
10:36:00 AM MDT  
APPROVED BY / DATE

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## Microbial Contaminants - Colorado Compliance

Test ID: T000251492  
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

  
Brianne Maillot  
07Aug2023  
09:09:00 AM MDT

  
Eden Thompson-Wright  
07Aug2023  
10:20:00 AM MDT

PREPARED BY / DATE

APPROVED BY / DATE

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## Cannabinoids - Colorado Compliance


Test ID: T000251490

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	0.189	1.682	1.78	Density = 0.945g/mL
Cannabichromenic Acid (CBCA)	0.055	0.173	ND	ND	
Cannabidiol (CBD)	0.192	0.502	47.446	50.21	
Cannabidiolic Acid (CBDA)	0.197	0.515	1.032	1.09	
Cannabidivarin (CBDV)	0.045	0.119	0.201	0.21	
Cannabidivarinic Acid (CBDVA)	0.082	0.215	ND	ND	
Cannabigerol (CBG)	0.034	0.107	1.536	1.63	
Cannabigerolic Acid (CBGA)	0.142	0.449	ND	ND	
Cannabinol (CBN)	0.044	0.140	<LOQ	<LOQ	
Cannabinolic Acid (CBNA)	0.097	0.306	ND	ND	
Delta 8-Tetrahydrocannabinol (Delta 8-THC)	0.170	0.534	ND	ND	
Delta 9-Tetrahydrocannabinol (Delta 9-THC)	0.154	0.485	1.434	1.52	
Delta 9-Tetrahydrocannabinolic Acid (THCA-A)	0.137	0.430	ND	ND	
Tetrahydrocannabivarin (THCV)	0.031	0.098	ND	ND	
Tetrahydrocannabivarinic Acid (THCVA)	0.120	0.379	ND	ND	
<b>Total Cannabinoids</b>			<b>53.331</b>	<b>56.44</b>	
Total Potential THC			1.434	1.52	
Total Potential CBD			48.351	51.17	

### Final Approval

  
Samantha Smith  
08Aug2023  
03:02:00 PM MDT  
PREPARED BY / DATE

  
Karen Winternheimer  
08Aug2023  
03:08:00 PM MDT  
APPROVED BY / DATE

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## Cannabinoids - Colorado Compliance


Test ID: T000251489

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	0.193	1.738	1.84	Density = 0.945g/mL
Cannabichromenic Acid (CBCA)	0.056	0.176	ND	ND	
Cannabidiol (CBD)	0.196	0.512	49.044	51.90	
Cannabidiolic Acid (CBDA)	0.201	0.525	1.074	1.14	
Cannabidivarin (CBDV)	0.046	0.121	0.202	0.21	
Cannabidivarinic Acid (CBDVA)	0.084	0.219	ND	ND	
Cannabigerol (CBG)	0.035	0.110	1.528	1.62	
Cannabigerolic Acid (CBGA)	0.145	0.458	ND	ND	
Cannabinol (CBN)	0.045	0.143	<LOQ	<LOQ	
Cannabinolic Acid (CBNA)	0.099	0.312	ND	ND	
Delta 8-Tetrahydrocannabinol (Delta 8-THC)	0.173	0.545	ND	ND	
Delta 9-Tetrahydrocannabinol (Delta 9-THC)	0.157	0.495	1.487	1.57	
Delta 9-Tetrahydrocannabinolic Acid (THCA-A)	0.139	0.439	ND	ND	
Tetrahydrocannabivarin (THCV)	0.032	0.100	ND	ND	
Tetrahydrocannabivarinic Acid (THCVA)	0.123	0.387	ND	ND	
<b>Total Cannabinoids</b>			<b>55.073</b>	<b>58.28</b>	
Total Potential THC			1.487	1.57	
Total Potential CBD			49.986	52.90	

### Final Approval

  
Sam Smith  
08Aug2023  
03:02:00 PM MDT  
PREPARED BY / DATE

  
Karen Winternheimer  
08Aug2023  
03:08:00 PM MDT  
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## Pesticides


Test ID: T000251491

Methods: TM17

(LC-QQ LC MS/MS)	Dynamic Range (ppb)	Result (ppb)		Dynamic Range (ppb)	Result (ppb)	
Abamectin	359 - 2672	ND		Malathion	280 - 2745	ND
Acephate	42 - 2738	ND		Metalaxyl	39 - 2748	ND
Acetamiprid	40 - 2717	ND		Methiocarb	42 - 2682	ND
Azoxystrobin	41 - 2742	ND		Methomyl	40 - 2756	ND
Bifenazate	37 - 2749	ND		MGK 264 1	183 - 1683	ND
Boscalid	42 - 2706	ND		MGK 264 2	116 - 1071	ND
Carbaryl	38 - 2730	ND		Myclobutanil	26 - 2717	ND
Carbofuran	39 - 2713	ND		Naled	44 - 2783	ND
Chlorantraniliprole	37 - 2700	ND		Oxamyl	42 - 2744	ND
Chlorpyrifos	44 - 2773	ND		Paclobutrazol	40 - 2738	ND
Clofentezine	282 - 2718	ND		Permethrin	282 - 2786	ND
Diazinon	281 - 2755	ND		Phosmet	38 - 2733	ND
Dichlorvos	284 - 2779	ND		Prophos	302 - 2688	ND
Dimethoate	39 - 2701	ND		Propoxur	40 - 2711	ND
E-Fenpyroximate	285 - 2744	ND		Pyridaben	298 - 2729	ND
Etofenprox	41 - 2702	ND		Spinosad A	29 - 2102	ND
Etoxazole	300 - 2723	ND		Spinosad D	65 - 670	ND
Fenoxycarb	40 - 2752	ND		Spiromesifen	273 - 2741	ND
Fipronil	25 - 2763	ND		Spirotetramat	267 - 2765	ND
Flonicamid	51 - 2752	ND		Spiroxamine 1	17 - 1206	ND
Fludioxonil	268 - 2721	ND		Spiroxamine 2	21 - 1493	ND
Hexythiazox	38 - 2724	ND		Tebuconazole	275 - 2736	ND
Imazalil	278 - 2796	ND		Thiacloprid	41 - 2726	ND
Imidacloprid	39 - 2775	ND		Thiamethoxam	41 - 2759	ND
Kresoxim-methyl	38 - 2784	ND		Trifloxystrobin	42 - 2710	ND

## Final Approval

  
Karen Winternheimer  
10Aug2023  
11:53:00 AM MDT  
PREPARED BY / DATE

  
Sam Smith  
10Aug2023  
12:34:00 PM MDT  
APPROVED BY / DATE

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## Mycotoxins - Colorado Compliance

Test ID: T000251495  
Methods: TM18 (UHPLC-QQQ)  
LCMS/MS: Mycotoxins

	Dynamic Range (ppb)	Result (ppb)	Notes
Ochratoxin A	1.35 - 129.28	ND	N/A
Aflatoxin B1	0.97 - 33.35	ND	
Aflatoxin B2	1.03 - 33.45	ND	
Aflatoxin G1	0.97 - 33.41	ND	
Aflatoxin G2	1.77 - 33.48	ND	
Total Aflatoxins (B1, B2, G1, and G2)		ND	

### Final Approval

  
Sam Smith  
11Aug2023  
11:08:00 AM MDT  
PREPARED BY / DATE


  
Karen Winternheimer  
11Aug2023  
11:12:00 AM MDT  
APPROVED BY / DATE


## Heavy Metals - Colorado Compliance

Test ID: T000251493  
Methods: TM19 (ICP-MS): Heavy Metals

	Dynamic Range (ppm)	Result (ppm)	Notes
Arsenic	0.05 - 4.58	ND	
Cadmium	0.06 - 5.74	ND	
Mercury	0.05 - 4.57	ND	
Lead	0.06 - 5.56	ND	

### Final Approval

  
Sam Smith  
14Aug2023  
10:15:00 AM MDT  
PREPARED BY / DATE

  
Karen Winternheimer  
14Aug2023  
10:16:00 AM MDT  
APPROVED BY / DATE

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<https://results.botanacor.com/api/v1/coas/uuid/fbf69318-e253-460f-bddb-5c24bb81d320>

**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<sup>2</sup> = 100 CFU, 10<sup>3</sup> = 1,000 CFU, 10<sup>4</sup> = 10,000 CFU, 10<sup>5</sup> = 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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