

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

**10CL-30**

Batch ID or Lot Number: <b>3311071280</b>	Test, Test ID and Methods: Various	Matrix: Solution	Page 1 of 6
Reported: <b>25Oct2023</b>	Started: 23Oct2023	Received: 23Oct2023	

## Cannabinoids - Colorado Compliance

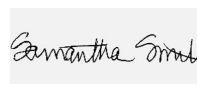
Test ID: T000259467

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

Cannabinoid Analysis	LOD (mg/mL)	LOQ (mg/mL)	Result (mg/mL)	Result (mg/g)	Notes
Cannabichromene (CBC)	0.070	0.209	0.807	0.85	Density = 0.945g/mL
Cannabichromenic Acid (CBCA)	0.064	0.192	ND	ND	
Cannabidiol (CBD)	0.222	0.578	20.413	21.60	
Cannabidiolic Acid (CBDA)	0.228	0.592	<LOQ	<LOQ	
Cannabidivarin (CBDV)	0.053	0.137	<LOQ	<LOQ	
Cannabidivarinic Acid (CBDVA)	0.095	0.247	ND	ND	
Cannabigerol (CBG)	0.040	0.119	0.470	0.50	
Cannabigerolic Acid (CBGA)	0.167	0.497	ND	ND	
Cannabinol (CBN)	0.052	0.155	ND	ND	
Cannabinolic Acid (CBNA)	0.114	0.339	ND	ND	
Delta 8-Tetrahydrocannabinol (Delta 8-THC)	0.198	0.592	ND	ND	
Delta 9-Tetrahydrocannabinol (Delta 9-THC)	0.180	0.538	0.761	0.81	
Delta 9-Tetrahydrocannabinolic Acid (THCA-A)	0.160	0.477	ND	ND	
Tetrahydrocannabivarin (THCV)	0.036	0.108	ND	ND	
Tetrahydrocannabivarinic Acid (THCVA)	0.141	0.420	ND	ND	
<b>Total Cannabinoids</b>			<b>22.451</b>	<b>23.76</b>	
Total Potential THC			0.761	0.81	
Total Potential CBD			20.413	21.60	

### Final Approval

  
Karen Winternheimer  
25Oct2023  
10:10:00 AM MDT  
PREPARED BY / DATE

  
Sam Smith  
25Oct2023  
10:11:00 AM MDT  
APPROVED BY / DATE

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

**10CL-30**

Batch ID or Lot Number: <b>3311071280</b>	Test, Test ID and Methods: Various	Matrix: Solution	Page 2 of 6
Reported: <b>25Oct2023</b>	Started: 23Oct2023	Received: 23Oct2023	

## Pesticides


Test ID: T000259469

Methods: TM17

(LC-QQ LC MS/MS)	Dynamic Range (ppb)	Result (ppb)		Dynamic Range (ppb)	Result (ppb)	
Abamectin	285 - 2621	ND		Malathion	290 - 2740	ND
Acephate	44 - 2875	ND		Metalaxyl	45 - 2686	ND
Acetamiprid	46 - 2783	ND		Methiocarb	43 - 2692	ND
Azoxystrobin	45 - 2697	ND		Methomyl	44 - 2849	ND
Bifenazate	40 - 2645	ND		MGK 264 1	177 - 1656	ND
Boscalid	37 - 2708	ND		MGK 264 2	116 - 1052	ND
Carbaryl	44 - 2656	ND		Myclobutanil	89 - 2626	ND
Carbofuran	47 - 2714	ND		Naled	48 - 2737	ND
Chlorantraniliprole	40 - 2711	ND		Oxamyl	43 - 2836	ND
Chlorpyrifos	41 - 2724	ND		Paclobutrazol	47 - 2697	ND
Clofentezine	275 - 2716	ND		Permethrin	284 - 2728	ND
Diazinon	291 - 2673	ND		Phosmet	45 - 2670	ND
Dichlorvos	336 - 2722	ND		Prophos	306 - 2666	ND
Dimethoate	44 - 2763	ND		Propoxur	44 - 2699	ND
E-Fenpyroximate	278 - 2759	ND		Pyridaben	284 - 2750	ND
Etofenprox	45 - 2697	ND		Spinosad A	36 - 2032	ND
Etoxazole	278 - 2760	ND		Spinosad D	63 - 670	ND
Fenoxycarb	17 - 2699	ND		Spiromesifen	262 - 2730	ND
Fipronil	49 - 2700	ND		Spirotetramat	295 - 2684	ND
Flonicamid	48 - 2802	ND		Spiroxamine 1	18 - 1176	ND
Fludioxonil	294 - 2624	ND		Spiroxamine 2	24 - 1486	ND
Hexythiazox	39 - 2728	ND		Tebuconazole	300 - 2719	ND
Imazalil	267 - 2714	ND		Thiacloprid	44 - 2772	ND
Imidacloprid	45 - 2904	ND		Thiamethoxam	43 - 2849	ND
Kresoxim-methyl	45 - 2652	ND		Trifloxystrobin	45 - 2697	ND

## Final Approval

  
Karen Winternheimer  
25Oct2023  
08:59:00 AM MDT  
PREPARED BY / DATE

  
Sam Smith  
25Oct2023  
09:02:00 AM MDT  
APPROVED BY / DATE

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

## 10CL-30


Batch ID or Lot Number: <b>3311071280</b>	Test, Test ID and Methods: Various	Matrix: Solution	Page 3 of 6
Reported: <b>25Oct2023</b>	Started: 23Oct2023	Received: 23Oct2023	


### Residual Solvents - Colorado Compliance

Test ID: T000259472  
Methods: TM04 (GC-MS): Residual

Solvents	Dynamic Range (ppm)	Result (ppm)	Notes
Propane	80 - 1609	ND	
Butanes (Isobutane, n-Butane)	158 - 3163	ND	
Methanol	59 - 1179	ND	
Pentane	88 - 1754	ND	
Ethanol	94 - 1879	ND	
Acetone	94 - 1883	ND	
Isopropyl Alcohol	102 - 2032	ND	
Hexane	6 - 114	ND	
Ethyl Acetate	97 - 1940	ND	
Benzene	0.2 - 3.8	ND	
Heptanes	92 - 1832	ND	
Toluene	17 - 347	ND	
Xylenes (m,p,o-Xylenes)	127 - 2535	ND	

### Final Approval

  
Karen Winternheimer  
25Oct2023  
12:13:00 PM MDT  
PREPARED BY / DATE

  
Sam Smith  
25Oct2023  
12:18:00 PM MDT  
APPROVED BY / DATE

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

**10CL-30**

Batch ID or Lot Number: <b>3311071280</b>	Test, Test ID and Methods: Various	Matrix: Solution	Page 4 of 6
Reported: <b>25Oct2023</b>	Started: 23Oct2023	Received: 23Oct2023	


## Cannabinoids - Colorado Compliance


Test ID: T000259468

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

Cannabinoid Analysis	LOD (mg/mL)	LOQ (mg/mL)	Result (mg/mL)	Result (mg/g)	Notes
Cannabichromene (CBC)	0.067	0.199	0.793	0.84	Density = 0.945g/mL
Cannabichromenic Acid (CBCA)	0.061	0.182	ND	ND	
Cannabidiol (CBD)	0.211	0.549	20.517	21.71	
Cannabidiolic Acid (CBDA)	0.216	0.563	<LOQ	<LOQ	
Cannabidivarin (CBDV)	0.050	0.130	<LOQ	<LOQ	
Cannabidivarinic Acid (CBDVA)	0.090	0.235	ND	ND	
Cannabigerol (CBG)	0.038	0.113	0.444	0.47	
Cannabigerolic Acid (CBGA)	0.158	0.472	ND	ND	
Cannabinol (CBN)	0.049	0.147	ND	ND	
Cannabinolic Acid (CBNA)	0.108	0.322	ND	ND	
Delta 8-Tetrahydrocannabinol (Delta 8-THC)	0.189	0.563	ND	ND	
Delta 9-Tetrahydrocannabinol (Delta 9-THC)	0.171	0.511	0.760	0.80	
Delta 9-Tetrahydrocannabinolic Acid (THCA-A)	0.152	0.453	ND	ND	
Tetrahydrocannabivarin (THCV)	0.034	0.103	ND	ND	
Tetrahydrocannabivarinic Acid (THCVA)	0.134	0.399	ND	ND	
<b>Total Cannabinoids</b>			<b>22.514</b>	<b>23.82</b>	
Total Potential THC			0.760	0.80	
Total Potential CBD			20.517	21.71	

### Final Approval

  
Karen Winternheimer  
25Oct2023  
10:10:00 AM MDT  
PREPARED BY / DATE

  
Sam Smith  
25Oct2023  
10:11:00 AM MDT  
APPROVED BY / DATE

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

**10CL-30**



Batch ID or Lot Number: <b>3311071280</b>	Test, Test ID and Methods: Various	Matrix: Solution	Page 5 of 6
Reported: <b>25Oct2023</b>	Started: 23Oct2023	Received: 23Oct2023	

## Microbial Contaminants - Colorado Compliance

Test ID: T000259470  
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

 Eden Thompson-Wright 26Oct2023 09:53:00 AM MDT	 Brett Hudson 26Oct2023 11:41:00 AM MDT
PREPARED BY / DATE	APPROVED BY / DATE

## Mycotoxins - Colorado Compliance

Test ID: T000259473  
Methods: TM18 (UHPLC-QQQ)  
LCMS/MS: Mycotoxins

	Dynamic Range (ppb)	Result (ppb)	Notes
Ochratoxin A	2.43 - 131.43	ND	N/A
Aflatoxin B1	1.12 - 32.50	ND	
Aflatoxin B2	1.08 - 33.38	ND	
Aflatoxin G1	1.12 - 32.73	ND	
Aflatoxin G2	1.18 - 33.25	ND	
Total Aflatoxins (B1, B2, G1, and G2)		ND	

### Final Approval

 Sam Smith 27Oct2023 06:53:00 AM MDT	 Karen Winternheimer 27Oct2023 06:58:00 AM MDT
PREPARED BY / DATE	APPROVED BY / DATE

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

**10CL-30**

Batch ID or Lot Number: <b>3311071280</b>	Test, Test ID and Methods: Various	Matrix: Solution	Page 6 of 6
Reported: <b>25Oct2023</b>	Started: 23Oct2023	Received: 23Oct2023	


## Heavy Metals - Colorado Compliance


Test ID: T000259471

Methods: TM19 (ICP-MS): Heavy

Metals	Dynamic Range (ppm)	Result (ppm)	Notes
Arsenic	0.05 - 4.50	ND	
Cadmium	0.04 - 4.45	ND	
Mercury	0.05 - 4.52	ND	
Lead	0.04 - 4.45	ND	

### Final Approval

  
Samantha Smith  
27Oct2023  
03:11:00 PM MDT  
PREPARED BY / DATE

  
Karen Winternheimer  
27Oct2023  
03:14:00 PM MDT  
APPROVED BY / DATE



<https://results.botanacor.com/api/v1/coas/uuid/a1ed9ea8-bcc3-4506-a4e1-339aef396df2>

**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](#).



Cert #4329.02  
a1ed9ea8bcc34506a4e1339aef396df2.1