

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

**SX-60**


Batch ID or Lot Number: <b>3310918223</b>	Test, Test ID and Methods: Various	Matrix: Finished Product	Page 1 of 6
Reported: <b>14Aug2023</b>	Started: 12Aug2023	Received: 11Aug2023	


## Microbial Contaminants - Colorado Compliance

Test ID: T000252385  
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  
14Aug2023  
09:20:00 AM MDT  
PREPARED BY / DATE

  
Eden Thompson-Wright  
14Aug2023  
10:03:00 AM MDT  
APPROVED BY / DATE

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## Residual Solvents - Colorado Compliance


Test ID: T000252387  
Methods: TM04 (GC-MS): Residual

Solvents	Dynamic Range (ppm)	Result (ppm)	Notes
Propane	88 - 1764	ND	
Butanes (Isobutane, n-Butane)	176 - 3529	ND	
Methanol	55 - 1102	ND	
Pentane	91 - 1826	ND	
Ethanol	91 - 1815	ND	
Acetone	89 - 1790	ND	
Isopropyl Alcohol	93 - 1855	ND	
Hexane	6 - 111	ND	
Ethyl Acetate	91 - 1823	ND	
Benzene	0.2 - 3.8	ND	
Heptanes	95 - 1907	ND	
Toluene	16 - 330	ND	
Xylenes (m,p,o-Xylenes)	121 - 2417	ND	

### Final Approval

  
Sam Smith  
15Aug2023  
01:50:00 PM MDT

PREPARED BY / DATE

  
Karen Winternheimer  
15Aug2023  
02:03:00 PM MDT

APPROVED BY / DATE

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## Cannabinoids - Colorado Compliance


Test ID: T000252383

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

Cannabinoid Analysis	LOD (mg/mL)	LOQ (mg/mL)	Result (mg/mL)	Result (mg/g)	Notes
Cannabichromene (CBC)	0.089	0.204	<LOQ	<LOQ	Density = 0.945g/mL
Cannabichromenic Acid (CBCA)	0.082	0.186	ND	ND	
Cannabidiol (CBD)	0.238	0.535	42.400	44.87	
Cannabidiolic Acid (CBDA)	0.244	0.549	ND	ND	
Cannabidivarin (CBDV)	0.056	0.127	0.255	0.27	
Cannabidivarinic Acid (CBDVA)	0.102	0.229	ND	ND	
Cannabigerol (CBG)	0.051	0.116	2.019	2.14	
Cannabigerolic Acid (CBGA)	0.212	0.484	ND	ND	
Cannabinol (CBN)	0.066	0.151	ND	ND	
Cannabinolic Acid (CBNA)	0.145	0.330	ND	ND	
Delta 8-Tetrahydrocannabinol (Delta 8-THC)	0.253	0.576	ND	ND	
Delta 9-Tetrahydrocannabinol (Delta 9-THC)	0.230	0.523	ND	ND	
Delta 9-Tetrahydrocannabinolic Acid (THCA-A)	0.203	0.464	ND	ND	
Tetrahydrocannabivarin (THCV)	0.046	0.105	ND	ND	
Tetrahydrocannabivarinic Acid (THCVA)	0.179	0.409	ND	ND	
<b>Total Cannabinoids</b>			<b>44.674</b>	<b>47.28</b>	
Total Potential THC			ND	ND	
Total Potential CBD			42.400	44.87	

### Final Approval

  
Sam Smith  
16Aug2023  
04:24:00 PM MDT  
PREPARED BY / DATE

  
Karen Winternheimer  
16Aug2023  
04:31:00 PM MDT  
APPROVED BY / DATE


## Heavy Metals - Colorado Compliance

Test ID: T000252386

Methods: TM19 (ICP-MS): Heavy

Metals	Dynamic Range (ppm)	Result (ppm)	Notes
Arsenic	0.04 - 4.39	ND	
Cadmium	0.05 - 5.23	ND	
Mercury	0.04 - 4.41	ND	
Lead	0.05 - 5.05	ND	

### Final Approval

  
Sam Smith  
16Aug2023  
02:24:00 PM MDT  
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Karen Winternheimer  
16Aug2023  
02:26:00 PM MDT  
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## Cannabinoids - Colorado Compliance

Test ID: T000252382


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

Cannabinoid Analysis	LOD (mg/mL)	LOQ (mg/mL)	Result (mg/mL)	Result (mg/g)	Notes
Cannabichromene (CBC)	0.083	0.189	<LOQ	<LOQ	Density = 0.945g/mL
Cannabichromenic Acid (CBCA)	0.076	0.173	ND	ND	
Cannabidiol (CBD)	0.220	0.496	42.024	44.47	
Cannabidiolic Acid (CBDA)	0.226	0.509	ND	ND	
Cannabidivarin (CBDV)	0.052	0.117	0.246	0.26	
Cannabidivarinic Acid (CBDVA)	0.094	0.212	ND	ND	
Cannabigerol (CBG)	0.047	0.107	2.010	2.13	
Cannabigerolic Acid (CBGA)	0.197	0.448	ND	ND	
Cannabinol (CBN)	0.061	0.140	ND	ND	
Cannabinolic Acid (CBNA)	0.134	0.306	ND	ND	
Delta 8-Tetrahydrocannabinol (Delta 8-THC)	0.235	0.534	ND	ND	
Delta 9-Tetrahydrocannabinol (Delta 9-THC)	0.213	0.485	ND	ND	
Delta 9-Tetrahydrocannabinolic Acid (THCA-A)	0.189	0.430	ND	ND	
Tetrahydrocannabivarin (THCV)	0.043	0.098	ND	ND	
Tetrahydrocannabivarinic Acid (THCVA)	0.166	0.379	ND	ND	
<b>Total Cannabinoids</b>			<b>44.280</b>	<b>46.86</b>	
Total Potential THC			ND	ND	
Total Potential CBD			42.024	44.47	

### Final Approval

  
Sam Smith  
16Aug2023  
04:24:00 PM MDT

PREPARED BY / DATE

  
Karen Winternheimer  
16Aug2023  
04:31:00 PM MDT

APPROVED BY / DATE

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## Pesticides


Test ID: T000252384

Methods: TM17

(LC-QQ LC MS/MS)	Dynamic Range (ppb)	Result (ppb)		Dynamic Range (ppb)	Result (ppb)	
Abamectin	202 - 2627	ND		Malathion	282 - 2763	ND
Acephate	44 - 2777	ND		Metalaxyl	44 - 2750	ND
Acetamiprid	41 - 2668	ND		Methiocarb	45 - 2694	ND
Azoxystrobin	45 - 2726	ND		Methomyl	41 - 2701	ND
Bifenazate	43 - 2720	ND		MGK 264 1	174 - 1643	ND
Boscalid	44 - 2702	ND		MGK 264 2	105 - 1078	ND
Carbaryl	39 - 2721	ND		Myclobutanil	54 - 2664	ND
Carbofuran	42 - 2717	ND		Naled	45 - 2741	ND
Chlorantraniliprole	43 - 2673	ND		Oxamyl	43 - 2702	ND
Chlorpyrifos	47 - 2827	ND		Paclobutrazol	45 - 2714	ND
Clofentezine	276 - 2738	ND		Permethrin	285 - 2790	ND
Diazinon	286 - 2754	ND		Phosmet	40 - 2734	ND
Dichlorvos	273 - 2719	ND		Prophos	294 - 2642	ND
Dimethoate	42 - 2677	ND		Propoxur	41 - 2700	ND
E-Fenpyroximate	293 - 2807	ND		Pyridaben	296 - 2749	ND
Etofenprox	42 - 2713	ND		Spinosad A	32 - 2098	ND
Etoxazole	292 - 2764	ND		Spinosad D	63 - 686	ND
Fenoxycarb	41 - 2710	ND		Spiromesifen	278 - 2783	ND
Fipronil	75 - 2626	ND		Spirotetramat	283 - 2754	ND
Flonicamid	48 - 2664	ND		Spiroxamine 1	17 - 1139	ND
Fludioxonil	307 - 2676	ND		Spiroxamine 2	21 - 1531	ND
Hexythiazox	40 - 2769	ND		Tebuconazole	289 - 2738	ND
Imazalil	271 - 2791	ND		Thiacloprid	44 - 2650	ND
Imidacloprid	51 - 2714	ND		Thiamethoxam	43 - 2706	ND
Kresoxim-methyl	47 - 2741	ND		Trifloxystrobin	44 - 2695	ND

## Final Approval

  
Karen Winternheimer  
18Aug2023  
11:06:00 AM MDT  
PREPARED BY / DATE

  
Sam Smith  
18Aug2023  
11:10:00 AM MDT  
APPROVED BY / DATE

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## Mycotoxins - Colorado Compliance

Test ID: T000252388  
Methods: TM18 (UHPLC-QQQ)

LCMS/MS): Mycotoxins	Dynamic Range (ppb)	Result (ppb)	Notes
Ochratoxin A	2.89 - 128.47	ND	N/A
Aflatoxin B1	0.91 - 33.66	ND	
Aflatoxin B2	0.97 - 33.85	ND	
Aflatoxin G1	0.97 - 33.47	ND	
Aflatoxin G2	1.10 - 33.69	ND	
Total Aflatoxins (B1, B2, G1, and G2)		ND	

### Final Approval

  
Sam Smith  
21Aug2023  
07:54:00 AM MDT  
PREPARED BY / DATE

  
Karen Winternheimer  
21Aug2023  
07:57:00 AM MDT  
APPROVED BY / DATE



<https://results.botanacor.com/api/v1/coas/uuid/f46d264d-487d-4c2b-88aa-274a79da0ca1>

**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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