

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

15S-30


Batch ID or Lot Number: 3310244315	Test, Test ID and Methods: Various	Matrix: Concentrate	Page 1 of 6
Reported: 29Nov2023	Started: 28Nov2023	Received: 27Nov2023	

Mycotoxins - Colorado Compliance

Test ID: T000262962
Methods: TM18 (UHPLC-QQQ)
LCMS/MS: Mycotoxins

	Dynamic Range (ppb)	Result (ppb)	Notes
Ochratoxin A	2.33 - 135.94	ND	N/A
Aflatoxin B1	0.95 - 32.93	ND	
Aflatoxin B2	0.95 - 33.22	ND	
Aflatoxin G1	1.02 - 33.42	ND	
Aflatoxin G2	1.12 - 33.58	ND	
Total Aflatoxins (B1, B2, G1, and G2)		ND	

Final Approval


PREPARED BY / DATE
Sam Smith
29Nov2023
02:03:00 PM MST


APPROVED BY / DATE
Karen Winternheimer
29Nov2023
02:08:00 PM MST

Prepared for:
BLUEBIRD BOTANICALS
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Residual Solvents - Colorado Compliance

Test ID: T000262961
Methods: TM04 (GC-MS): Residual

Solvents	Dynamic Range (ppm)	Result (ppm)	Notes
Propane	88 - 1751	ND	
Butanes (Isobutane, n-Butane)	172 - 3439	ND	
Methanol	64 - 1277	ND	
Pentane	94 - 1881	ND	
Ethanol	101 - 2016	ND	
Acetone	99 - 1974	ND	
Isopropyl Alcohol	106 - 2124	ND	
Hexane	6 - 122	ND	
Ethyl Acetate	102 - 2046	ND	
Benzene	0.2 - 4.0	ND	
Heptanes	98 - 1954	ND	
Toluene	18 - 369	ND	
Xylenes (m,p,o-Xylenes)	134 - 2690	ND	

Final Approval


Karen Winternheimer
30Nov2023
12:48:00 PM MST
PREPARED BY / DATE


Sam Smith
30Nov2023
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Heavy Metals - Colorado Compliance

Test ID: T000262960
Methods: TM19 (ICP-MS): Heavy Metals

Metals	Dynamic Range (ppm)	Result (ppm)	Notes
Arsenic	0.04 - 4.32	ND	
Cadmium	0.04 - 4.28	ND	
Mercury	0.04 - 4.24	ND	
Lead	0.04 - 4.34	ND	

Final Approval


Sam Smith
30Nov2023
07:58:00 AM MST
PREPARED BY / DATE


Karen Winternheimer
30Nov2023
08:00:00 AM MST
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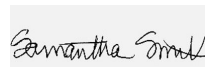
Cannabinoids - Colorado Compliance

Test ID: T000262957
Methods: TM14 (HPLC-DAD): Potency - Standard
Cannabinoid Analysis

	LOD (mg/mL)	LOQ (mg/mL)	Result (mg/mL)	Result (mg/g)	Notes
Cannabichromene (CBC)	0.065	0.232	0.911	0.96	Density = 0.945g/mL
Cannabichromenic Acid (CBCA)	0.059	0.212	ND	ND	
Cannabidiol (CBD)	0.197	0.534	30.361	32.13	
Cannabidiolic Acid (CBDA)	0.202	0.548	ND	ND	
Cannabidivarin (CBDV)	0.047	0.126	<LOQ	<LOQ	
Cannabidivarinic Acid (CBDVA)	0.084	0.228	ND	ND	
Cannabigerol (CBG)	0.037	0.131	1.500	1.59	
Cannabigerolic Acid (CBGA)	0.154	0.550	ND	ND	
Cannabinol (CBN)	0.048	0.171	ND	ND	
Cannabinolic Acid (CBNA)	0.105	0.375	ND	ND	
Delta 8-Tetrahydrocannabinol (Delta 8-THC)	0.183	0.655	ND	ND	
Delta 9-Tetrahydrocannabinol (Delta 9-THC)	0.167	0.595	0.831	0.88	
Delta 9-Tetrahydrocannabinolic Acid (THCA-A)	0.148	0.527	ND	ND	
Tetrahydrocannabivarin (THCV)	0.034	0.120	ND	ND	
Tetrahydrocannabivarinic Acid (THCVA)	0.130	0.465	ND	ND	
Total Cannabinoids			33.603	35.56	
Total Potential THC			0.831	0.88	
Total Potential CBD			30.361	32.13	

Final Approval


Karen Winternheimer
30Nov2023
11:20:00 AM MST
PREPARED BY / DATE


Sam Smith
30Nov2023
11:22:00 AM MST
APPROVED BY / DATE

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Cannabinoids - Colorado Compliance

Test ID: T000262956


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

Cannabinoid Analysis	LOD (mg/mL)	LOQ (mg/mL)	Result (mg/mL)	Result (mg/g)	Notes
Cannabichromene (CBC)	0.065	0.232	0.931	0.99	Density = 0.945g/mL
Cannabichromenic Acid (CBCA)	0.060	0.213	ND	ND	
Cannabidiol (CBD)	0.197	0.536	31.016	32.82	
Cannabidiolic Acid (CBDA)	0.202	0.550	ND	ND	
Cannabidivarin (CBDV)	0.047	0.127	0.129	0.14	
Cannabidivarinic Acid (CBDVA)	0.084	0.229	ND	ND	
Cannabigerol (CBG)	0.037	0.132	1.549	1.64	
Cannabigerolic Acid (CBGA)	0.155	0.552	ND	ND	
Cannabinol (CBN)	0.048	0.172	ND	ND	
Cannabinolic Acid (CBNA)	0.105	0.376	ND	ND	
Delta 8-Tetrahydrocannabinol (Delta 8-THC)	0.184	0.657	ND	ND	
Delta 9-Tetrahydrocannabinol (Delta 9-THC)	0.167	0.597	0.798	0.84	
Delta 9-Tetrahydrocannabinolic Acid (THCA-A)	0.148	0.529	ND	ND	
Tetrahydrocannabivarin (THCV)	0.034	0.120	ND	ND	
Tetrahydrocannabivarinic Acid (THCVA)	0.131	0.467	ND	ND	
Total Cannabinoids			34.423	36.43	
Total Potential THC			0.798	0.84	
Total Potential CBD			31.016	32.82	

Final Approval

 Karen Winternheimer
30Nov2023
11:20:00 AM MST

PREPARED BY / DATE

 Sam Smith
30Nov2023
11:22:00 AM MST

APPROVED BY / DATE

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Pesticides


Test ID: T000262958

Methods: TM17

(LC-QQ LC MS/MS)	Dynamic Range (ppb)	Result (ppb)		Dynamic Range (ppb)	Result (ppb)	
Abamectin	385 - 3277	ND		Malathion	280 - 2762	ND
Acephate	43 - 2767	ND		Metalaxyl	46 - 2743	ND
Acetamiprid	42 - 2720	ND		Methiocarb	47 - 2707	ND
Azoxystrobin	44 - 2764	ND		Methomyl	44 - 2802	ND
Bifenazate	44 - 2711	ND		MGK 264 1	164 - 1610	ND
Boscalid	41 - 2623	ND		MGK 264 2	113 - 1089	ND
Carbaryl	43 - 2708	ND		Myclobutanil	17 - 2632	ND
Carbofuran	44 - 2682	ND		Naled	46 - 2642	ND
Chlorantraniliprole	50 - 2579	ND		Oxamyl	43 - 2793	ND
Chlorpyrifos	50 - 2781	ND		Paclobutrazol	48 - 2595	ND
Clofentezine	283 - 2691	ND		Permethrin	260 - 2759	ND
Diazinon	289 - 2727	ND		Phosmet	43 - 2585	ND
Dichlorvos	283 - 2752	ND		Prophos	303 - 2679	ND
Dimethoate	43 - 2726	ND		Propoxur	45 - 2707	ND
E-Fenpyroximate	286 - 2761	ND		Pyridaben	298 - 2830	ND
Etofenprox	43 - 2781	ND		Spinosad A	32 - 2128	ND
Etoxazole	287 - 2702	ND		Spinosad D	65 - 685	ND
Fenoxycarb	30 - 2714	ND		Spiromesifen	273 - 2747	ND
Fipronil	49 - 2636	ND		Spirotetramat	267 - 2754	ND
Flonicamid	43 - 2740	ND		Spiroxamine 1	16 - 1027	ND
Fludioxonil	315 - 2625	ND		Spiroxamine 2	28 - 1553	ND
Hexythiazox	42 - 2753	ND		Tebuconazole	286 - 2594	ND
Imazalil	263 - 2804	ND		Thiacloprid	43 - 2746	ND
Imidacloprid	43 - 2776	ND		Thiamethoxam	40 - 2752	ND
Kresoxim-methyl	45 - 2761	ND		Trifloxystrobin	46 - 2738	ND

Final Approval

 Karen Winternheimer
01Dec2023
09:36:00 AM MST
PREPARED BY / DATE

 Sam Smith
01Dec2023
09:42:00 AM MST
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Microbial Contaminants - Colorado Compliance

Test ID: T000262959
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

 Eden Thompson-Wright 01Dec2023 03:06:00 PM MST PREPARED BY / DATE	 Brett Hudson 01Dec2023 04:44:00 PM MST APPROVED BY / DATE
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<https://results.botanacor.com/api/v1/coas/uuid/10f90725-8b30-447d-9139-fc54c99a032c>

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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