

Prepared for:
BLUEBIRD BOTANICALS

PO BOX 271724
Louisville, CO USA 80027

15CL-30

Batch ID or Lot Number: 311102364	Test, Test ID and Methods: Various	Matrix: Finished Product	Page 1 of 7
Reported: 22Jan2024	Started: 19Jan2024	Received: 18Jan2024	

Microbial Contaminants - Colorado Compliance

Test ID: T000267769
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
22Jan2024
03:40:00 PM MST

PREPARED BY / DATE



Brianne Maillot
22Jan2024
04:41:00 PM MST

APPROVED BY / DATE

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Residual Solvents - Colorado Compliance

Test ID: T000267771


Methods: TM04 (GC-MS): Residual

Solvents	Dynamic Range (ppm)	Result (ppm)	Notes
Propane	85 - 1695	ND	
Butanes (Isobutane, n-Butane)	188 - 3761	ND	
Methanol	70 - 1395	ND	
Pentane	96 - 1918	ND	
Ethanol	104 - 2085	ND	
Acetone	111 - 2222	ND	
Isopropyl Alcohol	108 - 2168	ND	
Hexane	7 - 143	ND	
Ethyl Acetate	118 - 2368	ND	
Benzene	0.2 - 4.6	ND	
Heptanes	112 - 2237	ND	
Toluene	22 - 431	ND	
Xylenes (m,p,o-Xylenes)	152 - 3032	ND	

Final Approval


Sam Smith
22Jan2024
12:47:00 PM MST

PREPARED BY / DATE


Karen Winternheimer
22Jan2024
12:49:00 PM MST

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Cannabinoids - Colorado Compliance


Test ID: T000267767

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

Cannabinoid Analysis	LOD (mg/mL)	LOQ (mg/mL)	Result (mg/mL)	Result (mg/g)	Notes
Cannabichromene (CBC)	0.072	0.204	1.089	1.15	Density = 0.945g/mL
Cannabichromenic Acid (CBCA)	0.065	0.187	ND	ND	
Cannabidiol (CBD)	0.192	0.528	30.369	32.14	
Cannabidiolic Acid (CBDA)	0.197	0.542	<LOQ	<LOQ	
Cannabidivarin (CBDV)	0.045	0.125	0.184	0.19	
Cannabidivarinic Acid (CBDVA)	0.082	0.226	ND	ND	
Cannabigerol (CBG)	0.041	0.116	0.625	0.66	
Cannabigerolic Acid (CBGA)	0.170	0.485	ND	ND	
Cannabinol (CBN)	0.053	0.151	ND	ND	
Cannabinolic Acid (CBNA)	0.116	0.331	ND	ND	
Delta 8-Tetrahydrocannabinol (Delta 8-THC)	0.202	0.578	ND	ND	
Delta 9-Tetrahydrocannabinol (Delta 9-THC)	0.184	0.525	1.071	1.13	
Delta 9-Tetrahydrocannabinolic Acid (THCA-A)	0.163	0.465	ND	ND	
Tetrahydrocannabivarin (THCV)	0.037	0.106	ND	ND	
Tetrahydrocannabivarinic Acid (THCVA)	0.144	0.410	ND	ND	
Total Cannabinoids			33.338	35.27	
Total Potential THC			1.071	1.13	
Total Potential CBD			30.369	32.14	

Final Approval


Sam Smith
24Jan2024
09:27:00 AM MST
PREPARED BY / DATE


Karen Winternheimer
24Jan2024
09:35:00 AM MST
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Cannabinoids - Colorado Compliance

Test ID: T000267766

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

Cannabinoid Analysis	LOD (mg/mL)	LOQ (mg/mL)	Result (mg/mL)	Result (mg/g)	Notes
Cannabichromene (CBC)	0.072	0.206	1.089	1.15	Density = 0.945g/mL
Cannabichromenic Acid (CBCA)	0.066	0.188	ND	ND	
Cannabidiol (CBD)	0.194	0.533	30.417	32.19	
Cannabidiolic Acid (CBDA)	0.199	0.546	<LOQ	<LOQ	
Cannabidivarin (CBDV)	0.046	0.126	0.182	0.19	
Cannabidivarinic Acid (CBDVA)	0.083	0.228	ND	ND	
Cannabigerol (CBG)	0.041	0.117	0.637	0.67	
Cannabigerolic Acid (CBGA)	0.171	0.489	ND	ND	
Cannabinol (CBN)	0.053	0.153	ND	ND	
Cannabinolic Acid (CBNA)	0.117	0.334	ND	ND	
Delta 8-Tetrahydrocannabinol (Delta 8-THC)	0.204	0.583	ND	ND	
Delta 9-Tetrahydrocannabinol (Delta 9-THC)	0.185	0.529	1.084	1.15	
Delta 9-Tetrahydrocannabinolic Acid (THCA-A)	0.164	0.469	ND	ND	
Tetrahydrocannabivarin (THCV)	0.037	0.106	ND	ND	
Tetrahydrocannabivarinic Acid (THCVA)	0.145	0.414	ND	ND	
Total Cannabinoids			33.409	35.35	
Total Potential THC			1.084	1.15	
Total Potential CBD			30.417	32.19	

Final Approval


Sam Smith
24Jan2024
09:27:00 AM MST
PREPARED BY / DATE


Karen Winternheimer
24Jan2024
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Pesticides


Test ID: T000267768

Methods: TM17

(LC-QQ LC MS/MS)	Dynamic Range (ppb)	Result (ppb)		Dynamic Range (ppb)	Result (ppb)	
Abamectin	278 - 2656	ND		Malathion	287 - 2674	ND
Acephate	43 - 2744	ND		Metalaxyl	42 - 2689	ND
Acetamiprid	44 - 2697	ND		Methiocarb	45 - 2718	ND
Azoxystrobin	45 - 2680	ND		Methomyl	43 - 2771	ND
Bifenazate	38 - 2657	ND		MGK 264 1	159 - 1614	ND
Boscalid	53 - 2709	ND		MGK 264 2	114 - 1090	ND
Carbaryl	41 - 2679	ND		Myclobutanil	64 - 2706	ND
Carbofuran	44 - 2697	ND		Naled	45 - 2654	ND
Chlorantraniliprole	55 - 2700	ND		Oxamyl	43 - 2759	ND
Chlorpyrifos	48 - 2745	ND		Paclobutrazol	45 - 2710	ND
Clofentezine	282 - 2696	ND		Permethrin	279 - 2735	ND
Diazinon	277 - 2699	ND		Phosmet	37 - 2583	ND
Dichlorvos	281 - 2763	ND		Prophos	279 - 2711	ND
Dimethoate	42 - 2722	ND		Propoxur	44 - 2704	ND
E-Fenpyroximate	244 - 2799	ND		Pyridaben	293 - 2727	ND
Etofenprox	44 - 2722	ND		Spinosad A	35 - 2081	ND
Etoxazole	281 - 2664	ND		Spinosad D	66 - 670	ND
Fenoxycarb	34 - 2690	ND		Spiromesifen	274 - 2709	ND
Fipronil	38 - 2737	ND		Spirotetramat	277 - 2760	ND
Flonicamid	49 - 2702	ND		Spiroxamine 1	17 - 1003	ND
Fludioxonil	285 - 2671	ND		Spiroxamine 2	24 - 1617	ND
Hexythiazox	43 - 2741	ND		Tebuconazole	279 - 2705	ND
Imazalil	276 - 2723	ND		Thiacloprid	44 - 2715	ND
Imidacloprid	43 - 2781	ND		Thiamethoxam	45 - 2748	ND
Kresoxim-methyl	43 - 2720	ND		Trifloxystrobin	46 - 2705	ND

Final Approval


Karen Winternheimer
25Jan2024
11:26:00 AM MST
PREPARED BY / DATE


Sam Smith
25Jan2024
11:27:00 AM MST
APPROVED BY / DATE

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Heavy Metals - Colorado Compliance

Test ID: T000267770
Methods: TM19 (ICP-MS): Heavy

Metals	Dynamic Range (ppm)	Result (ppm)	Notes
Arsenic	0.05 - 4.50	ND	
Cadmium	0.05 - 4.61	ND	
Mercury	0.05 - 4.69	ND	
Lead	0.05 - 4.69	ND	

Final Approval


Samantha Smith
25Jan2024
08:11:00 AM MST
PREPARED BY / DATE



Karen Winternheimer
25Jan2024
08:17:00 AM MST
APPROVED BY / DATE


Mycotoxins - Colorado Compliance

Test ID: T000267772
Methods: TM18 (UHPLC-QQQ
LCMS/MS): Mycotoxins

LCMS/MS): Mycotoxins	Dynamic Range (ppb)	Result (ppb)	Notes
Ochratoxin A	0.88 - 129.64	ND	N/A
Aflatoxin B1	0.91 - 32.83	ND	
Aflatoxin B2	0.91 - 32.83	ND	
Aflatoxin G1	0.98 - 32.64	ND	
Aflatoxin G2	1.79 - 33.22	ND	
Total Aflatoxins (B1, B2, G1, and G2)		ND	

Final Approval


Karen Winternheimer
26Jan2024
08:23:00 AM MST
PREPARED BY / DATE


Samantha Smith
26Jan2024
08:37:00 AM MST
APPROVED BY / DATE

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<https://results.botanacor.com/api/v1/coas/uuid/a2dba728-c9f4-4e1c-9bdc-7ff5714a0b15>

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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