

Prepared for:
BLUEBIRD BOTANICALS

PO BOX 271724
Louisville, CO USA 80027

GUM

Batch ID or Lot Number: 240530	Test, Test ID and Methods: Various	Matrix: Unit	Page 1 of 7
Reported: 19Jun2024	Started: 19Jun2024	Received: 18Jun2024	

Cannabinoids - Colorado Compliance

Test ID: T000284424

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

Cannabinoid Analysis

	LOD (mg)	LOQ (mg)	Result (mg)	Result (mg/g)	Notes
Cannabichromene (CBC)	0.245	0.936	<LOQ	<LOQ	# of Servings = 1 Sample Weight=4g
Cannabichromenic Acid (CBCA)	0.224	0.856	ND	ND	
Cannabidiol (CBD)	0.865	2.568	14.857	3.71	
Cannabidiolic Acid (CBDA)	0.887	2.633	ND	ND	
Cannabidivarin (CBDV)	0.205	0.607	ND	ND	
Cannabidivarinic Acid (CBDVA)	0.370	1.099	ND	ND	
Cannabigerol (CBG)	0.139	0.531	<LOQ	<LOQ	
Cannabigerolic Acid (CBGA)	0.581	2.220	ND	ND	
Cannabinol (CBN)	0.181	0.693	ND	ND	
Cannabinolic Acid (CBNA)	0.396	1.515	ND	ND	
Delta 8-Tetrahydrocannabinol (Delta 8-THC)	0.692	2.645	ND	ND	
Delta 9-Tetrahydrocannabinol (Delta 9-THC)	0.628	2.402	ND	ND	
Delta 9-Tetrahydrocannabinolic Acid (THCA-A)	0.557	2.129	ND	ND	
Tetrahydrocannabivarin (THCV)	0.126	0.483	ND	ND	
Tetrahydrocannabivarinic Acid (THCVA)	0.491	1.878	ND	ND	
Total Cannabinoids			14.857	3.71	
Total Potential THC			ND	ND	
Total Potential CBD			14.857	3.71	

Final Approval



Karen Winternheimer
19Jun2024
03:04:00 PM MDT

PREPARED BY / DATE



Sam Smith
19Jun2024
03:05:00 PM MDT

APPROVED BY / DATE

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Cannabinoids - Colorado Compliance

Test ID: T000284425

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

Cannabinoid Analysis

	LOD (mg)	LOQ (mg)	Result (mg)	Result (mg/g)	Notes
Cannabichromene (CBC)	0.234	0.895	<LOQ	<LOQ	# of Servings = 1 Sample Weight=4g
Cannabichromenic Acid (CBCA)	0.214	0.818	ND	ND	
Cannabidiol (CBD)	0.827	2.456	14.848	3.71	
Cannabidiolic Acid (CBDA)	0.848	2.519	ND	ND	
Cannabidivarin (CBDV)	0.196	0.581	ND	ND	
Cannabidivarinic Acid (CBDVA)	0.354	1.051	ND	ND	
Cannabigerol (CBG)	0.133	0.508	<LOQ	<LOQ	
Cannabigerolic Acid (CBGA)	0.556	2.124	ND	ND	
Cannabinol (CBN)	0.173	0.663	ND	ND	
Cannabinolic Acid (CBNA)	0.379	1.449	ND	ND	
Delta 8-Tetrahydrocannabinol (Delta 8-THC)	0.662	2.530	ND	ND	
Delta 9-Tetrahydrocannabinol (Delta 9-THC)	0.601	2.298	ND	ND	
Delta 9-Tetrahydrocannabinolic Acid (THCA-A)	0.533	2.036	ND	ND	
Tetrahydrocannabivarin (THCV)	0.121	0.462	ND	ND	
Tetrahydrocannabivarinic Acid (THCVA)	0.470	1.796	ND	ND	
Total Cannabinoids			14.848	3.71	
Total Potential THC			ND	ND	
Total Potential CBD			14.848	3.71	

Final Approval



Karen Winternheimer
19Jun2024
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Sam Smith
19Jun2024
03:05:00 PM MDT

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Heavy Metals - Colorado Compliance

Test ID: T000284428

Methods: TM19 (ICP-MS): Heavy

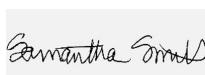
Metals	Dynamic Range (ppm)	Result (ppm)	Notes
Arsenic	0.04 - 4.42	ND	
Cadmium	0.05 - 4.50	ND	
Mercury	0.05 - 4.65	ND	
Lead	0.05 - 4.68	ND	

Final Approval



Karen Winternheimer
20Jun2024
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Sam Smith
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**Mycotoxins - Colorado
Compliance**


Test ID: T000284430


Methods: TM18 (UHPLC-QQQ

LCMS/MS): Mycotoxins

	Dynamic Range (ppb)	Result (ppb)	Notes
Ochratoxin A	2.20 - 128.31	ND	N/A
Aflatoxin B1	0.94 - 32.36	ND	
Aflatoxin B2	1.04 - 32.01	ND	
Aflatoxin G1	0.97 - 32.08	ND	
Aflatoxin G2	1.13 - 32.39	ND	
Total Aflatoxins (B1, B2, G1, and G2)		ND	

Final Approval


Sam Smith
20Jun2024
09:39:00 AM MDT
PREPARED BY / DATE


Karen Winternheimer
20Jun2024
09:41:00 AM MDT
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Pesticides


Test ID: T000284426


Methods: TM17

(LC-QQ LC MS/MS)	Dynamic Range (ppb)	Result (ppb)
Abamectin	327 - 2698	ND
Acephate	40 - 2752	ND
Acetamiprid	42 - 2726	ND
Azoxystrobin	44 - 2656	ND
Bifenazate	44 - 2645	ND
Boscalid	45 - 2686	ND
Carbaryl	39 - 2720	ND
Carbofuran	44 - 2670	ND
Chlorantraniliprole	41 - 2711	ND
Chlorpyrifos	40 - 2734	ND
Clofentezine	277 - 2704	ND
Diazinon	286 - 2682	ND
Dichlorvos	276 - 2767	ND
Dimethoate	41 - 2727	ND
E-Fenpyroximate	278 - 2695	ND
Etofenprox	42 - 2670	ND
Etoxazole	278 - 2600	ND
Fenoxycarb	45 - 2682	ND
Fipronil	42 - 2714	ND
Flonicamid	41 - 2792	ND
Fludioxonil	276 - 2702	ND
Hexythiazox	40 - 2718	ND
Imazalil	284 - 2702	ND
Imidacloprid	42 - 2746	ND
Kresoxim-methyl	43 - 2697	ND

	Dynamic Range (ppb)	Result (ppb)
Malathion	286 - 2682	ND
Metalaxyl	41 - 2645	ND
Methiocarb	41 - 2707	ND
Methomyl	39 - 2793	ND
MGK 264 1	162 - 1562	ND
MGK 264 2	114 - 1086	ND
Myclobutanil	46 - 2676	ND
Naled	45 - 2675	ND
Oxamyl	42 - 2791	ND
Paclobutrazol	43 - 2662	ND
Permethrin	289 - 2716	ND
Phosmet	42 - 2544	ND
Prophos	287 - 2712	ND
Propoxur	44 - 2692	ND
Pyridaben	285 - 2692	ND
Spinosad A	33 - 2056	ND
Spinosad D	64 - 647	ND
Spiromesifen	276 - 2658	ND
Spirotetramat	304 - 2724	ND
Spiroxamine 1	16 - 1012	ND
Spiroxamine 2	24 - 1590	ND
Tebuconazole	300 - 2651	ND
Thiacloprid	42 - 2769	ND
Thiamethoxam	42 - 2752	ND
Trifloxystrobin	44 - 2697	ND

Final Approval


PREPARED BY / DATE
Sam Smith
21Jun2024
08:31:00 AM MDT


APPROVED BY / DATE
Karen Winternheimer
21Jun2024
08:32:00 AM MDT

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Microbial Contaminants - Colorado Compliance

Test ID: T000284427

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



Brett Hudson
21Jun2024
03:00:00 PM MDT

PREPARED BY / DATE



Brianne Maillot
21Jun2024
03:08:00 PM MDT

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**Residual Solvents -
Colorado Compliance**

Test ID: T000284429
Methods: TM04 (GC-MS): Residual

Solvents	Dynamic Range (ppm)	Result (ppm)	Notes
Propane	76 - 1525	ND	
Butanes (Isobutane, n-Butane)	151 - 3026	ND	
Methanol	53 - 1069	ND	
Pentane	77 - 1545	ND	
Ethanol	82 - 1641	ND	
Acetone	87 - 1747	ND	
Isopropyl Alcohol	92 - 1849	ND	
Hexane	5 - 109	ND	
Ethyl Acetate	90 - 1792	ND	
Benzene	0.2 - 3.6	ND	
Heptanes	84 - 1675	ND	
Toluene	16 - 324	ND	
Xylenes (m,p,o-Xylenes)	116 - 2314	ND	

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Sam Smith
20Jun2024
01:31:00 PM MDT
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Karen Winternheimer
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<https://results.botanacor.com/api/v1/coas/uuid/315696a9-00b0-4645-8bef-dbf025b6e7a6>

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 \times (0.877)) and Total CBD = CBD + (CBDa \times (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 \times (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: 10^2 = 100 CFU, 10^3 = 1,000 CFU, 10^4 = 10,000 CFU, 10^5 = 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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