

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

TF-30

Batch ID or Lot Number: 3310491075	Test, Test ID and Methods: Various	Matrix: Solution	Page 1 of 7
Reported: 03May2023	Started: 02May2023	Received: 01May2023	


Cannabinoids - Colorado Compliance


Test ID: T000241785

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	0.203	ND	ND	Density = 0.945g/mL
Cannabichromenic Acid (CBCA)	0.066	0.186	ND	ND	
Cannabidiol (CBD)	0.209	0.540	52.050	55.08	
Cannabidiolic Acid (CBDA)	0.215	0.554	ND	ND	
Cannabidivarin (CBDV)	0.050	0.128	ND	ND	
Cannabidivarinic Acid (CBDVA)	0.090	0.231	ND	ND	
Cannabigerol (CBG)	0.041	0.115	ND	ND	
Cannabigerolic Acid (CBGA)	0.170	0.483	ND	ND	
Cannabinol (CBN)	0.053	0.151	ND	ND	
Cannabinolic Acid (CBNA)	0.116	0.329	ND	ND	
Delta 8-Tetrahydrocannabinol (Delta 8-THC)	0.203	0.575	ND	ND	
Delta 9-Tetrahydrocannabinol (Delta 9-THC)	0.184	0.522	ND	ND	
Delta 9-Tetrahydrocannabinolic Acid (THCA-A)	0.163	0.463	ND	ND	
Tetrahydrocannabivarin (THCV)	0.037	0.105	ND	ND	
Tetrahydrocannabivarinic Acid (THCVA)	0.144	0.408	ND	ND	
Total Cannabinoids			52.050	55.08	
Total Potential THC			ND	ND	
Total Potential CBD			52.050	55.08	

Final Approval


Karen Winternheimer
03May2023
12:19:00 PM MDT
PREPARED BY / DATE


Sam Smith
03May2023
12:22:00 PM MDT
APPROVED BY / DATE

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Cannabinoids - Colorado Compliance


Test ID: T000241784

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	0.198	ND	ND	Density = 0.945g/mL
Cannabichromenic Acid (CBCA)	0.064	0.181	ND	ND	
Cannabidiol (CBD)	0.203	0.525	52.711	55.78	
Cannabidiolic Acid (CBDA)	0.209	0.539	ND	ND	
Cannabidivarin (CBDV)	0.048	0.124	ND	ND	
Cannabidivarinic Acid (CBDVA)	0.087	0.225	ND	ND	
Cannabigerol (CBG)	0.040	0.112	ND	ND	
Cannabigerolic Acid (CBGA)	0.165	0.469	ND	ND	
Cannabinol (CBN)	0.052	0.146	ND	ND	
Cannabinolic Acid (CBNA)	0.113	0.320	ND	ND	
Delta 8-Tetrahydrocannabinol (Delta 8-THC)	0.197	0.559	ND	ND	
Delta 9-Tetrahydrocannabinol (Delta 9-THC)	0.179	0.508	ND	ND	
Delta 9-Tetrahydrocannabinolic Acid (THCA-A)	0.158	0.450	ND	ND	
Tetrahydrocannabivarin (THCV)	0.036	0.102	ND	ND	
Tetrahydrocannabivarinic Acid (THCVA)	0.140	0.397	ND	ND	
Total Cannabinoids			52.711	55.78	
Total Potential THC			ND	ND	
Total Potential CBD			52.711	55.78	

Final Approval


Karen Winternheimer
03May2023
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Sam Smith
03May2023
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**Mycotoxins - Colorado
Compliance**

Test ID: T000241790
Methods: TM18 (UHPLC-QQQ)
LCMS/MS: Mycotoxins

	Dynamic Range (ppb)	Result (ppb)	Notes
Ochratoxin A	2.69 - 137.80	ND	N/A
Aflatoxin B1	1.08 - 33.08	ND	
Aflatoxin B2	1.02 - 33.01	ND	
Aflatoxin G1	1.08 - 33.11	ND	
Aflatoxin G2	1.02 - 32.85	ND	
Total Aflatoxins (B1, B2, G1, and G2)		ND	

Final Approval


PREPARED BY / DATE
Sam Smith
04May2023
10:53:00 AM MDT


APPROVED BY / DATE
Karen Winternheimer
04May2023
11:23:00 AM MDT

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Residual Solvents - Colorado Compliance

Test ID: T000241789
Methods: TM04 (GC-MS): Residual

Solvents	Dynamic Range (ppm)	Result (ppm)	Notes
Propane	93 - 1853	ND	
Butanes (Isobutane, n-Butane)	193 - 3865	ND	
Methanol	58 - 1165	ND	
Pentane	99 - 1986	ND	
Ethanol	100 - 2007	ND	
Acetone	100 - 2007	ND	
Isopropyl Alcohol	101 - 2017	ND	
Hexane	6 - 118	ND	
Ethyl Acetate	99 - 1985	ND	
Benzene	0.2 - 3.6	ND	
Heptanes	101 - 2016	ND	
Toluene	18 - 356	ND	
Xylenes (m,p,o-Xylenes)	127 - 2540	ND	

Final Approval


Karen Winternheimer
04May2023
10:29:00 AM MDT
PREPARED BY / DATE


Sam Smith
04May2023
10:31:00 AM MDT
APPROVED BY / DATE

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Microbial Contaminants - Colorado Compliance

Test ID: T000241787
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
05May2023
02:00:00 PM MDT

PREPARED BY / DATE



Brett Hudson
05May2023
04:46:00 PM MDT

APPROVED BY / DATE

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Pesticides


Test ID: T000241786

Methods: TM17

(LC-QQ LC MS/MS)	Dynamic Range (ppb)	Result (ppb)		Dynamic Range (ppb)	Result (ppb)	
Abamectin	357 - 3481	ND		Malathion	300 - 2788	ND
Acephate	68 - 2750	ND		Metalaxyl	44 - 2763	ND
Acetamiprid	46 - 2854	ND		Methiocarb	50 - 2812	ND
Azoxystrobin	44 - 2716	ND		Methomyl	49 - 2924	ND
Bifenazate	37 - 2690	ND		MGK 264 1	189 - 1720	ND
Boscalid	47 - 2701	ND		MGK 264 2	122 - 1074	ND
Carbaryl	39 - 2777	ND		Myclobutanil	49 - 2745	ND
Carbofuran	44 - 2766	ND		Naled	47 - 2797	ND
Chlorantraniliprole	48 - 2676	ND		Oxamyl	50 - 2938	ND
Chlorpyrifos	38 - 2918	ND		Paclobutrazol	38 - 2635	ND
Clofentezine	297 - 2744	ND		Permethrin	279 - 2800	ND
Diazinon	282 - 2764	ND		Phosmet	42 - 2709	ND
Dichlorvos	369 - 2754	ND		Prophos	290 - 2836	ND
Dimethoate	51 - 2873	ND		Propoxur	43 - 2770	ND
E-Fenpyroximate	291 - 2742	ND		Pyridaben	286 - 2813	ND
Etofenprox	41 - 2846	ND		Spinosad A	32 - 2061	ND
Etoxazole	284 - 2909	ND		Spinosad D	64 - 700	ND
Fenoxycarb	2 - 2719	ND		Spiromesifen	316 - 2739	ND
Fipronil	56 - 2573	ND		Spirotetramat	285 - 2660	ND
Flonicamid	45 - 2849	ND		Spiroxamine 1	20 - 1229	ND
Fludioxonil	313 - 2758	ND		Spiroxamine 2	27 - 1592	ND
Hexythiazox	40 - 2748	ND		Tebuconazole	297 - 2618	ND
Imazalil	284 - 2789	ND		Thiacloprid	46 - 2805	ND
Imidacloprid	37 - 2793	ND		Thiamethoxam	42 - 2840	ND
Kresoxim-methyl	39 - 2799	ND		Trifloxystrobin	44 - 2739	ND

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Karen Winternheimer
05May2023
12:31:00 PM MDT
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Sam Smith
05May2023
12:33:00 PM MDT
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Heavy Metals - Colorado Compliance

Test ID: T000241788
Methods: TM19 (ICP-MS): Heavy

Metals	Dynamic Range (ppm)	Result (ppm)	Notes
Arsenic	0.05 - 4.82	ND	
Cadmium	0.05 - 4.65	ND	
Mercury	0.05 - 4.67	ND	
Lead	0.01 - 1.47	ND	

Final Approval


PREPARED BY / DATE
Sam Smith
05May2023
12:10:00 PM MDT


APPROVED BY / DATE
Karen Winternheimer
05May2023
12:14:00 PM MDT



<https://results.botanacor.com/api/v1/coas/uuid/479e7322-71b8-4414-9ed4-515369e34ebb>

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 Accredited by A2LA. 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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