

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

SV-30 23B26C

Batch ID or Lot Number: 23B26C	Test, Test ID and Methods: Various	Matrix: Concentrate	Page 1 of 6
Reported: 17Feb2023	Started: 16Feb2023	Received: 16Feb2023	


Pesticides


Test ID: T000235359

Methods: TM17

(LC-QQ LC MS/MS)	Dynamic Range (ppb)	Result (ppb)		Dynamic Range (ppb)	Result (ppb)	
Abamectin	297 - 2792	ND		Malathion	302 - 2702	ND
Acephate	41 - 2796	ND		Metalaxyl	41 - 2735	ND
Acetamiprid	44 - 2777	ND		Methiocarb	42 - 2747	ND
Azoxystrobin	45 - 2726	ND		Methomyl	40 - 2767	ND
Bifenazate	41 - 2722	ND		MGK 264 1	169 - 1608	ND
Boscalid	41 - 2792	ND		MGK 264 2	110 - 1130	ND
Carbaryl	41 - 2718	ND		Myclobutanil	40 - 2752	ND
Carbofuran	45 - 2698	ND		Naled	44 - 2720	ND
Chlorantraniliprole	41 - 2742	ND		Oxamyl	43 - 2765	ND
Chlorpyrifos	38 - 2737	ND		Paclobutrazol	44 - 2698	ND
Clofentezine	273 - 2731	ND		Permethrin	288 - 2744	ND
Diazinon	291 - 2730	ND		Phosmet	42 - 2720	ND
Dichlorvos	263 - 2800	ND		Prophos	295 - 2742	ND
Dimethoate	41 - 2748	ND		Propoxur	44 - 2713	ND
E-Fenpyroximate	294 - 2737	ND		Pyridaben	310 - 2696	ND
Etofenprox	44 - 2698	ND		Spinosad A	35 - 2226	ND
Etoxazole	309 - 2713	ND		Spinosad D	52 - 493	ND
Fenoxycarb	45 - 2730	ND		Spiromesifen	285 - 2749	ND
Fipronil	42 - 2729	ND		Spirotetramat	289 - 2741	ND
Flonicamid	50 - 2770	ND		Spiroxamine 1	18 - 1159	ND
Fludioxonil	307 - 2813	ND		Spiroxamine 2	4 - 1599	ND
Hexythiazox	42 - 2732	ND		Tebuconazole	289 - 2696	ND
Imazalil	291 - 2750	ND		Thiacloprid	43 - 2750	ND
Imidacloprid	43 - 2771	ND		Thiamethoxam	41 - 2792	ND
Kresoxim-methyl	40 - 2749	ND		Trifloxystrobin	46 - 2706	ND

Final Approval


Karen Winternheimer
17Feb2023
01:56:00 PM MST
PREPARED BY / DATE


Sam Smith
17Feb2023
01:59:00 PM MST
APPROVED BY / DATE

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Cannabinoids - Colorado Compliance


Test ID: T000235357

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

Cannabinoid Analysis	LOD (mg)	LOQ (mg)	Result (mg)	Result (mg/g)	Notes
Cannabichromene (CBC)	1.757	5.748	ND	ND	# of Servings = 1
Cannabichromenic Acid (CBCA)	1.607	5.258	ND	ND	Sample Weight=28g
Cannabidiol (CBD)	4.957	14.491	777.963	27.78	
Cannabidiolic Acid (CBDA)	5.085	14.863	ND	ND	
Cannabidivarin (CBDV)	1.172	3.427	3.683	0.13	
Cannabidivarinic Acid (CBDVA)	2.121	6.200	ND	ND	
Cannabigerol (CBG)	0.998	3.264	ND	ND	
Cannabigerolic Acid (CBGA)	4.171	13.643	ND	ND	
Cannabinol (CBN)	1.302	4.258	ND	ND	
Cannabinolic Acid (CBNA)	2.846	9.308	ND	ND	
Delta 8-Tetrahydrocannabinol (Delta 8-THC)	4.969	16.254	ND	ND	
Delta 9-Tetrahydrocannabinol (Delta 9-THC)	4.513	14.762	ND	ND	
Delta 9-Tetrahydrocannabinolic Acid (THCA-A)	3.999	13.079	ND	ND	
Tetrahydrocannabivarin (THCV)	0.908	2.969	ND	ND	
Tetrahydrocannabivarinic Acid (THCVA)	3.527	11.536	ND	ND	
Total Cannabinoids			781.646	27.91	
Total Potential THC			ND	ND	
Total Potential CBD			777.963	27.78	

Final Approval


Sam Smith
17Feb2023
02:04:00 PM MST
PREPARED BY / DATE


Karen Winternheimer
17Feb2023
02:08:00 PM MST
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Cannabinoids - Colorado Compliance

Test ID: T000235358
Methods: TM14 (HPLC-DAD): Potency – Standard

Cannabinoid Analysis	LOD (mg)	LOQ (mg)	Result (mg)	Result (mg/g)	Notes
Cannabichromene (CBC)	1.791	5.858	ND	ND	# of Servings = 1
Cannabichromenic Acid (CBCA)	1.638	5.358	ND	ND	Sample Weight=28g
Cannabidiol (CBD)	5.052	14.768	784.298	28.01	
Cannabidiolic Acid (CBDA)	5.181	15.146	ND	ND	
Cannabidivarin (CBDV)	1.195	3.493	4.626	0.17	
Cannabidivarinic Acid (CBDVA)	2.161	6.318	ND	ND	
Cannabigerol (CBG)	1.017	3.326	ND	ND	
Cannabigerolic Acid (CBGA)	4.251	13.903	ND	ND	
Cannabinol (CBN)	1.327	4.339	ND	ND	
Cannabinolic Acid (CBNA)	2.900	9.486	ND	ND	
Delta 8-Tetrahydrocannabinol (Delta 8-THC)	5.064	16.564	ND	ND	
Delta 9-Tetrahydrocannabinol (Delta 9-THC)	4.599	15.043	ND	ND	
Delta 9-Tetrahydrocannabinolic Acid (THCA-A)	4.075	13.328	ND	ND	
Tetrahydrocannabivarin (THCV)	0.925	3.025	ND	ND	
Tetrahydrocannabivarinic Acid (THCVA)	3.594	11.756	ND	ND	
Total Cannabinoids			788.924	28.18	
Total Potential THC			ND	ND	
Total Potential CBD			784.298	28.01	

Final Approval


Sam Smith
17Feb2023
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Karen Winternheimer
17Feb2023
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Residual Solvents - Colorado Compliance

Test ID: T000235362
Methods: TM04 (GC-MS): Residual

Solvents	Dynamic Range (ppm)	Result (ppm)	Notes
Propane	103 - 2061	ND	
Butanes (Isobutane, n-Butane)	213 - 4261	ND	
Methanol	65 - 1305	ND	
Pentane	105 - 2106	ND	
Ethanol	103 - 2054	ND	
Acetone	104 - 2074	ND	
Isopropyl Alcohol	105 - 2108	ND	
Hexane	6 - 126	ND	
Ethyl Acetate	108 - 2160	ND	
Benzene	0.2 - 4.2	ND	
Heptanes	103 - 2065	ND	
Toluene	19 - 374	ND	
Xylenes (m,p,o-Xylenes)	138 - 2769	ND	

Final Approval


Karen Winternheimer
19Feb2023
08:55:00 AM MST
PREPARED BY / DATE


Sam Smith
19Feb2023
08:58:00 AM MST
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Louisville, CO USA 80027

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Mycotoxins - Colorado Compliance

Test ID: T000235363
Methods: TM18 (UHPLC-QQQ)
LCMS/MS: Mycotoxins

	Dynamic Range (ppb)	Result (ppb)	Notes
Ochratoxin A	3.30 - 136.51	ND	N/A
Aflatoxin B1	0.96 - 33.65	ND	
Aflatoxin B2	0.99 - 33.68	ND	
Aflatoxin G1	1.06 - 33.71	ND	
Aflatoxin G2	1.09 - 34.21	ND	
Total Aflatoxins (B1, B2, G1, and G2)		ND	

Final Approval


Sam Smith
23Feb2023
07:44:00 AM MST
PREPARED BY / DATE



Karen Winternheimer
23Feb2023
07:50:00 AM MST
APPROVED BY / DATE


Heavy Metals - Colorado Compliance

Test ID: T000235361
Methods: TM19 (ICP-MS): Heavy Metals

	Dynamic Range (ppm)	Result (ppm)	Notes
Arsenic	0.05 - 5.11	ND	
Cadmium	0.05 - 4.94	ND	
Mercury	0.04 - 4.39	ND	
Lead	0.04 - 4.02	ND	

Final Approval


Sam Smith
23Feb2023
03:06:00 PM MST
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Karen Winternheimer
23Feb2023
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Microbial Contaminants - Colorado Compliance

Test ID: T000235360
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
23Feb2023
12:42:00 PM MST

PREPARED BY / DATE



Brianne Maillot
23Feb2023
03:44:00 PM MST

APPROVED BY / DATE



<https://results.botanacor.com/api/v1/coas/uuid/37cf530b-c855-4d65-a2b9-a8b5995a2146>

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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