

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

RO-10 23A87L

Batch ID or Lot Number: 23A87L	Test, Test ID and Methods: Various	Matrix: Concentrate	Page 1 of 6
Reported: 17Feb2023	Started: 16Feb2023	Received: 16Feb2023	


Pesticides


Test ID: T000235366

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	67		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
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Cannabinoids - Colorado Compliance

Test ID: T000235364
Methods: TM14 (HPLC-DAD): Potency – Standard

Cannabinoid Analysis	LOD (mg)	LOQ (mg)	Result (mg)	Result (mg/g)	Notes
Cannabichromene (CBC)	0.623	2.036	ND	ND	# of Servings = 1 Sample Weight=9.2g
Cannabichromenic Acid (CBCA)	0.569	1.862	ND	ND	
Cannabidiol (CBD)	1.756	5.133	277.473	30.16	
Cannabidiolic Acid (CBDA)	1.801	5.265	ND	ND	
Cannabidivarin (CBDV)	0.415	1.214	ND	ND	
Cannabidivarinic Acid (CBDVA)	0.751	2.196	ND	ND	
Cannabigerol (CBG)	0.353	1.156	ND	ND	
Cannabigerolic Acid (CBGA)	1.478	4.833	ND	ND	
Cannabinol (CBN)	0.461	1.508	ND	ND	
Cannabinolic Acid (CBNA)	1.008	3.297	ND	ND	
Delta 8-Tetrahydrocannabinol (Delta 8-THC)	1.760	5.758	ND	ND	
Delta 9-Tetrahydrocannabinol (Delta 9-THC)	1.599	5.229	ND	ND	
Delta 9-Tetrahydrocannabinolic Acid (THCA-A)	1.416	4.633	ND	ND	
Tetrahydrocannabivarin (THCV)	0.322	1.052	ND	ND	
Tetrahydrocannabivarinic Acid (THCVA)	1.249	4.086	ND	ND	
Total Cannabinoids			277.473	30.16	
Total Potential THC			ND	ND	
Total Potential CBD			277.473	30.16	

Final Approval


Sam Smith
17Feb2023
02:04:00 PM MST
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Karen Winternheimer
17Feb2023
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Cannabinoids - Colorado Compliance

Test ID: T000235365
Methods: TM14 (HPLC-DAD): Potency – Standard

Cannabinoid Analysis	LOD (mg)	LOQ (mg)	Result (mg)	Result (mg/g)	Notes
Cannabichromene (CBC)	0.621	2.032	ND	ND	# of Servings = 1 Sample Weight=9.2g
Cannabichromenic Acid (CBCA)	0.568	1.858	ND	ND	
Cannabidiol (CBD)	1.752	5.122	278.385	30.26	
Cannabidiolic Acid (CBDA)	1.797	5.253	ND	ND	
Cannabidivarin (CBDV)	0.414	1.211	ND	ND	
Cannabidivarinic Acid (CBDVA)	0.750	2.191	ND	ND	
Cannabigerol (CBG)	0.353	1.153	ND	ND	
Cannabigerolic Acid (CBGA)	1.474	4.822	ND	ND	
Cannabinol (CBN)	0.460	1.505	ND	ND	
Cannabinolic Acid (CBNA)	1.006	3.290	ND	ND	
Delta 8-Tetrahydrocannabinol (Delta 8-THC)	1.756	5.745	ND	ND	
Delta 9-Tetrahydrocannabinol (Delta 9-THC)	1.595	5.217	ND	ND	
Delta 9-Tetrahydrocannabinolic Acid (THCA-A)	1.413	4.623	ND	ND	
Tetrahydrocannabivarin (THCV)	0.321	1.049	ND	ND	
Tetrahydrocannabivarinic Acid (THCVA)	1.247	4.077	ND	ND	
Total Cannabinoids			278.385	30.26	
Total Potential THC			ND	ND	
Total Potential CBD			278.385	30.26	

Final Approval


Sam Smith
17Feb2023
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Residual Solvents - Colorado Compliance

Test ID: T000235369
Methods: TM04 (GC-MS): Residual

Solvents	Dynamic Range (ppm)	Result (ppm)	Notes
Propane	109 - 2179	ND	
Butanes (Isobutane, n-Butane)	225 - 4503	ND	
Methanol	69 - 1379	ND	
Pentane	111 - 2226	ND	
Ethanol	109 - 2171	ND	
Acetone	110 - 2192	ND	
Isopropyl Alcohol	111 - 2228	ND	
Hexane	7 - 134	ND	
Ethyl Acetate	114 - 2283	ND	
Benzene	0.2 - 4.5	ND	
Heptanes	109 - 2182	ND	
Toluene	20 - 395	ND	
Xylenes (m,p,o-Xylenes)	146 - 2926	ND	

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Karen Winternheimer
19Feb2023
08:55:00 AM MST
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Sam Smith
19Feb2023
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Mycotoxins - Colorado Compliance

Test ID: T000235370
Methods: TM18 (UHPLC-QQQ)
LCMS/MS: Mycotoxins

	Dynamic Range (ppb)	Result (ppb)	Notes
Ochratoxin A	3.29 - 135.98	ND	N/A
Aflatoxin B1	0.95 - 33.52	ND	
Aflatoxin B2	0.99 - 33.55	ND	
Aflatoxin G1	1.05 - 33.58	ND	
Aflatoxin G2	1.08 - 34.08	ND	
Total Aflatoxins (B1, B2, G1, and G2)		ND	

Final Approval


Sam Smith
23Feb2023
07:44:00 AM MST
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Karen Winternheimer
23Feb2023
07:50:00 AM MST
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Heavy Metals - Colorado Compliance

Test ID: T000235368
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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<https://results.botanacor.com/api/v1/coas/uuid/c1813c36-52b7-47d3-9542-1c95d5497ddd>

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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