

Prepared for:

BLUEBIRD BOTANICALS

PO BOX 271724 Louisville, CO USA 80027

ST-30 23B25C

Batch ID or Lot Number: Test, Test ID and Methods: Matrix: Page 1 of 6 23B25C Various Concentrate Started: Reported: Received: 17Feb2023 16Feb2023 16Feb2023

Pesticides

Test ID: T000235352 Methods: TM17

(LC-QQ LC MS/MS)	Dynamic Range (ppb)	Result (ppb)
Abamectin	297 - 2792	ND
Acephate	41 - 2796	ND
Acetamiprid	44 - 2777	ND
Azoxystrobin	45 - 2726	ND
Bifenazate	41 - 2722	ND
Boscalid	41 - 2792	ND
Carbaryl	41 - 2718	ND
Carbofuran	45 - 2698	ND
Chlorantraniliprole	41 - 2742	ND
Chlorpyrifos	38 - 2737	ND
Clofentezine	273 - 2731	ND
Diazinon	291 - 2730	ND
Dichlorvos	263 - 2800	ND
Dimethoate	41 - 2748	ND
E-Fenpyroximate	294 - 2737	ND
Etofenprox	44 - 2698	ND
Etoxazole	309 - 2713	ND
Fenoxycarb	45 - 2730	ND
Fipronil	42 - 2729	ND
Flonicamid	50 - 2770	ND
Fludioxonil	307 - 2813	ND
Hexythiazox	42 - 2732	ND
Imazalil	291 - 2750	ND
Imidacloprid	43 - 2771	ND
Kresoxim-methyl	40 - 2749	ND

	Dynamic Range (ppb)	Result (ppb)
Malathion	302 - 2702	ND
Metalaxyl	41 - 2735	ND
Methiocarb	42 - 2747	ND
Methomyl	40 - 2767	ND
MGK 264 1	169 - 1608	ND
MGK 264 2	110 - 1130	ND
Myclobutanil	40 - 2752	ND
Naled	44 - 2720	ND
Oxamyl	43 - 2765	ND
Paclobutrazol	44 - 2698	ND
Permethrin	288 - 2744	ND
Phosmet	42 - 2720	ND
Prophos	295 - 2742	ND
Propoxur	44 - 2713	ND
Pyridaben	310 - 2696	ND
Spinosad A	35 - 2226	ND
Spinosad D	52 - 493	ND
Spiromesifen	285 - 2749	ND
Spirotetramat	289 - 2741	ND
Spiroxamine 1	18 - 1159	ND
Spiroxamine 2	4 - 1599	ND
Tebuconazole	289 - 2696	ND
Thiacloprid	43 - 2750	ND
Thiamethoxam	41 - 2792	ND
Trifloxystrobin	46 - 2706	ND

Final Approval

Mtenhemer 01:56:00 PM MST

Karen Winternheimer 17Feb2023

PREPARED BY / DATE

Samantha Small

Sam Smith 17Feb2023 01:59:00 PM MST

APPROVED BY / DATE



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Reported:	Started:	Received:	
17Feb2023	16Feb2023	16Feb2023	

Cannabinoids - Colorado Compliance

Test ID: T000235350

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

Cannabichromene (CBC)	1.661 1.520	5.434	ND	ND	" (5
Cannabishramanis Asid (CDCA)	1.520		=	ND	# of Servings = 1
Cannabichromenic Acid (CBCA)		4.971	ND	ND	Sample Weight=28g
Cannabidiol (CBD)	4.687	13.700	211.153	7.54	
Cannabidiolic Acid (CBDA)	4.807	14.052	ND	ND	
Cannabidivarin (CBDV)	1.108	3.240	ND	ND	
Cannabidivarinic Acid (CBDVA)	2.005	5.862	ND	ND	
Cannabigerol (CBG)	0.943	3.085	ND	ND	
Cannabigerolic Acid (CBGA)	3.943	12.898	ND	ND	
Cannabinol (CBN)	1.231	4.025	ND	ND	
Cannabinolic Acid (CBNA)	2.691	8.800	ND	ND	
Delta 8-Tetrahydrocannabinol (Delta 8-THC)	4.698	15.366	ND	ND	
Delta 9-Tetrahydrocannabinol (Delta 9-THC)	4.267	13.956	ND	ND	
Delta 9-Tetrahydrocannabinolic Acid (THCA-A)	3.780	12.365	ND	ND	
Tetrahydrocannabivarin (THCV)	0.858	2.806	ND	ND	
Tetrahydrocannabivarinic Acid (THCVA)	3.334	10.906	ND	ND	
Total Cannabinoids			211.153	7.54	
Total Potential THC			ND	ND	
Total Potential CBD			211.153	7.54	

Final Approval

Sawantha Small 17Feb2023 02:04:00 PM MST

Sam Smith

PREPARED BY / DATE

Winternheumen 02:08:00 PM MST APPROVED BY / DATE

Karen Winternheimer 17Feb2023



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Cannabinoids - Colorado Compliance

Test ID: T000235351

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

Cannabinoid Analysis	LOD (mg)	LOQ (mg)	Result (mg)	Result (mg/g)	Notes
Cannabichromene (CBC)	1.785	5.839	ND	ND	# of Servings = 1
Cannabichromenic Acid (CBCA)	1.633	5.341	ND	ND	Sample Weight=28g
Cannabidiol (CBD)	5.036	14.721	209.549	7.48	
Cannabidiolic Acid (CBDA)	5.165	15.098	ND	ND	
Cannabidivarin (CBDV)	1.191	3.482	ND	ND	
Cannabidivarinic Acid (CBDVA)	2.155	6.298	ND	ND	
Cannabigerol (CBG)	1.014	3.315	ND	ND	
Cannabigerolic Acid (CBGA)	4.237	13.859	ND	ND	
Cannabinol (CBN)	1.322	4.325	ND	ND	
Cannabinolic Acid (CBNA)	2.891	9.456	ND	ND	
Delta 8-Tetrahydrocannabinol (Delta 8-THC)	5.048	16.511	ND	ND	
Delta 9-Tetrahydrocannabinol (Delta 9-THC)	4.585	14.995	ND	ND	
Delta 9-Tetrahydrocannabinolic Acid (THCA-A)	4.062	13.286	ND	ND	
Tetrahydrocannabivarin (THCV)	0.922	3.016	ND	ND	
Tetrahydrocannabivarinic Acid (THCVA)	3.583	11.719	ND	ND	
Total Cannabinoids			209.549	7.48	•
Total Potential THC			ND	ND	
Total Potential CBD			209.549	7.48	

Final Approval

Sam Smith Sawantha Small 17Feb2023 02:04:00 PM MST

PREPARED BY / DATE

Winternheumen 02:08:00 PM MST APPROVED BY / DATE

Karen Winternheimer 17Feb2023



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23B25C	Various	Concentrate	
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Residual Solvents -Colorado Compliance

Test ID: T000235355

Methods: TM04 (GC-MS): Residual

Solvents	Dynamic Range (ppm)	Result (ppm)	Notes
Propane	93 - 1863	ND	
Butanes (Isobutane, n-Butane)	193 - 3851	ND	_
Methanol	59 - 1179	ND	
Pentane	95 - 1903	ND	_
Ethanol	93 - 1857	ND	
Acetone	94 - 1875	ND	•
Isopropyl Alcohol	95 - 1906	ND	_
Hexane	6 - 114	ND	_
Ethyl Acetate	98 - 1952	ND	•
Benzene	0.2 - 3.8	ND	-
Heptanes	93 - 1866	ND	
Toluene	17 - 338	ND	•
Xylenes (m,p,o-Xylenes)	125 - 2502	ND	_

Final Approval

PREPARED BY / DATE

Karen Winternheimer 19Feb2023

MEMPLEMEN 08:55:00 AM MST

Sawantha Smot 19Feb2023 08:58:00 AM MST

Sam Smith

APPROVED BY / DATE



Notes

foreign matter

Free from visual mold, mildew, and

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Mycotoxins - Colorado Compliance

Test ID: T000235356

Methods: TM18 (UHPLC-QQQ

LCMS/MS): Mycotoxins	Dynamic Range (ppb)	Result (ppb)	Notes
Ochratoxin A	3.17 - 130.97	ND	N/A
Aflatoxin B1	0.92 - 32.28	ND	
Aflatoxin B2	0.95 - 32.32	ND	
Aflatoxin G1	1.01 - 32.35	ND	
Aflatoxin G2	1.04 - 32.82	ND	
Total Aflatoxins (B1, B2, G1, and G	2)	ND	

Final Approval

Sawantha Small 23Feb2023 07:44:00 AM MST

Sam Smith

Karen Winternheimer 23Feb2023 MENHUME 07:50:00 AM MST

PREPARED BY / DATE

Microbial Contaminants -**Colorado Compliance**

Test ID: T000235353

Methods: TM25 (qPCR) TM24, TM26,

TM27 (Culture Plating): Microbial (Colorado Panel)	Method	LOD	Quantitation Range	Result
STEC	TM25: PCR	10 ⁰ CFU/25g	NA	Absent
Salmonella	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

Redt Taken PREPARED BY / DATE Brett Hudson 23Feb2023 12:42:00 PM MST

Buanne Maillot

Brianne Maillot 23Feb2023 03:44:00 PM MST

APPROVED BY / DATE



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Heavy Metals -Colorado Compliance

Test ID: T000235354

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

Samantha Smul

Sam Smith 23Feb2023 03:06:00 PM MST

PREPARED BY / DATE

Witershelmer 03:13:00 PM MST

Karen Winternheimer 23Feb2023



https://results.botanacor.com/api/v1/coas/uuid/946e836e-fe6a-470e-95ad-4be94c23eeab

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: 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 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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