

Prepared for:

### **BLUEBIRD BOTANICALS**

PO BOX 271724 Louisville, CO USA 80027

#### **15S-30**

Batch ID or Lot Number: 3310244141	Test, Test ID and Methods: Various	Matrix: Solution	Page 1 of 7
Reported:	Started:	Received:	
03May2023	02May2023	01May2023	

## **Cannabinoids - Colorado Compliance**

Test ID: T000241813

Methods: TM14 (HPLC-DAD): Potency – Standard			Result		
Cannabinoid Analysis	LOD (mg/mL)	LOQ (mg/mL)	(mg/mL)	Result (mg/g)	Notes
Cannabichromene (CBC)	0.069	0.197	1.241	1.31	Density =
Cannabichromenic Acid (CBCA)	0.063	0.180	ND	ND	0.945g/mL
Cannabidiol (CBD)	0.202	0.522	34.263	36.26	
Cannabidiolic Acid (CBDA)	0.208	0.536	ND	ND	
Cannabidivarin (CBDV)	0.048	0.124	ND	ND	
Cannabidivarinic Acid (CBDVA)	0.087	0.224	ND	ND	
Cannabigerol (CBG)	0.039	0.112	1.645	1.74	
Cannabigerolic Acid (CBGA)	0.164	0.467	ND	ND	
Cannabinol (CBN)	0.051	0.146	0.429	0.45	
Cannabinolic Acid (CBNA)	0.112	0.318	ND	ND	
Delta 8-Tetrahydrocannabinol (Delta 8-THC)	0.196	0.556	ND	ND	
Delta 9-Tetrahydrocannabinol (Delta 9-THC)	0.178	0.505	<loq< td=""><td><loq< td=""><td></td></loq<></td></loq<>	<loq< td=""><td></td></loq<>	
Delta 9-Tetrahydrocannabinolic Acid (THCA-A)	0.158	0.447	ND	ND	
Tetrahydrocannabivarin (THCV)	0.036	0.102	ND	ND	
Tetrahydrocannabivarinic Acid (THCVA)	0.139	0.395	ND	ND	
Total Cannabinoids			37.578	39.76	
Total Potential THC			<loq< td=""><td><loq< td=""><td></td></loq<></td></loq<>	<loq< td=""><td></td></loq<>	
Total Potential CBD			34.263	36.26	

**Final Approval** 

Winternheimer 12:19:00 PM MDT PREPARED BY / DATE

Karen Winternheimer 03May2023

Samantha Smot 03May2023 12:22:00 PM MDT

Sam Smith



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## **Cannabinoids - Colorado Compliance**

Test ID: T000241812

Methods: TM14 (HPLC-DAD): Potency – Standard			Result		
Cannabinoid Analysis	LOD (mg/mL)	LOQ (mg/mL)	(mg/mL)	Result (mg/g)	Notes
Cannabichromene (CBC)	0.069	0.196	1.242	1.31	Density =
Cannabichromenic Acid (CBCA)	0.063	0.180	ND	ND	0.945g/mL
Cannabidiol (CBD)	0.202	0.522	33.984	35.96	
Cannabidiolic Acid (CBDA)	0.207	0.536	ND	ND	
Cannabidivarin (CBDV)	0.048	0.123	ND	ND	
Cannabidivarinic Acid (CBDVA)	0.087	0.223	ND	ND	
Cannabigerol (CBG)	0.039	0.112	1.642	1.74	
Cannabigerolic Acid (CBGA)	0.164	0.466	ND	ND	
Cannabinol (CBN)	0.051	0.146	0.429	0.45	
Cannabinolic Acid (CBNA)	0.112	0.318	ND	ND	
Delta 8-Tetrahydrocannabinol (Delta 8-THC)	0.196	0.556	ND	ND	
Delta 9-Tetrahydrocannabinol (Delta 9-THC)	0.178	0.505	<loq< td=""><td><loq< td=""><td></td></loq<></td></loq<>	<loq< td=""><td></td></loq<>	
Delta 9-Tetrahydrocannabinolic Acid (THCA-A)	0.158	0.447	ND	ND	
Tetrahydrocannabivarin (THCV)	0.036	0.101	ND	ND	
Tetrahydrocannabivarinic Acid (THCVA)	0.139	0.394	ND	ND	
Total Cannabinoids			37.297	39.46	
Total Potential THC			<loq< td=""><td><loq< td=""><td></td></loq<></td></loq<>	<loq< td=""><td></td></loq<>	
Total Potential CBD			33.984	35.96	

**Final Approval** 

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

Karen Winternheimer 03May2023

Samantha Smot 03May2023 12:22:00 PM MDT

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## **Residual Solvents -Colorado Compliance**

Test ID: T000241817

Methods: TM04 (GC-MS): Residual

Solvents	Dynamic Range (ppm)	Result (ppm)	Notes
Propane	99 - 1986	ND	
Butanes (Isobutane, n-Butane)	207 - 4142	ND	
Methanol	62 - 1249	ND	•
Pentane	106 - 2128	ND	
Ethanol	108 - 2151	ND	
Acetone	108 - 2151	ND	•
Isopropyl Alcohol	108 - 2162	ND	
Hexane	6 - 127	ND	
Ethyl Acetate	106 - 2127	ND	•
Benzene	0.2 - 3.8	ND	
Heptanes	108 - 2160	ND	
Toluene	19 - 381	ND	
Xylenes (m,p,o-Xylenes)	136 - 2722	ND	-

#### **Final Approval**

Menheumer 10:29:00 AM MDT PREPARED BY / DATE

Karen Winternheimer 04May2023

Samantha Smot 04May2023 10:31:00 AM MDT

Sam Smith



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## **Mycotoxins - Colorado Compliance**

Test ID: T000241818

Methods: TM18 (UHPLC-QQQ

LCMS/MS): Mycotoxins	<b>Dynamic Range</b> (ppb)	Result (ppb)	Notes
Ochratoxin A	2.38 - 122.29	ND	N/A
Aflatoxin B1	0.96 - 29.35	ND	
Aflatoxin B2	0.90 - 29.29	ND	
Aflatoxin G1	0.96 - 29.38	ND	
Aflatoxin G2	0.90 - 29.15	ND	
Total Aflatoxins (B1, B2, G1, ar	nd G2)	ND	

#### **Final Approval**

Sawantha Small 04May2023 10:53:00 AM MDT

Sam Smith

PREPARED BY / DATE

Wintersheumer 11:23:00 AM MDT

APPROVED BY / DATE

Karen Winternheimer 04May2023



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#### **15S-30**

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#### **Pesticides**

Test ID: T000241814 Methods: TM17

(LC-QQ LC MS/MS)	Dynamic Range (ppb)	Result (ppb)
Abamectin	357 - 3481	ND
Acephate	68 - 2750	ND
Acetamiprid	46 - 2854	ND
Azoxystrobin	44 - 2716	ND
Bifenazate	37 - 2690	ND
Boscalid	47 - 2701	ND
Carbaryl	39 - 2777	ND
Carbofuran	44 - 2766	ND
Chlorantraniliprole	48 - 2676	ND
Chlorpyrifos	38 - 2918	ND
Clofentezine	297 - 2744	ND
Diazinon	282 - 2764	ND
Dichlorvos	369 - 2754	ND
Dimethoate	51 - 2873	ND
E-Fenpyroximate	291 - 2742	ND
Etofenprox	41 - 2846	ND
Etoxazole	284 - 2909	ND
Fenoxycarb	2 - 2719	ND
Fipronil	56 - 2573	ND
Flonicamid	45 - 2849	ND
Fludioxonil	313 - 2758	ND
Hexythiazox	40 - 2748	ND
Imazalil	284 - 2789	ND
Imidacloprid	37 - 2793	ND
Kresoxim-methyl	39 - 2799	ND

	<b>Dynamic Range</b> (ppb)	Result (ppb)
Malathion	300 - 2788	ND
Metalaxyl	44 - 2763	ND
Methiocarb	50 - 2812	ND
Methomyl	49 - 2924	ND
MGK 264 1	189 - 1720	ND
MGK 264 2	122 - 1074	ND
Myclobutanil	49 - 2745	ND
Naled	47 - 2797	ND
Oxamyl	50 - 2938	ND
Paclobutrazol	38 - 2635	ND
Permethrin	279 - 2800	ND
Phosmet	42 - 2709	ND
Prophos	290 - 2836	ND
Propoxur	43 - 2770	ND
Pyridaben	286 - 2813	ND
Spinosad A	32 - 2061	ND
Spinosad D	64 - 700	ND
Spiromesifen	316 - 2739	ND
Spirotetramat	285 - 2660	ND
Spiroxamine 1	20 - 1229	ND
Spiroxamine 2	27 - 1592	ND
Tebuconazole	297 - 2618	ND
Thiacloprid	46 - 2805	ND
Thiamethoxam	42 - 2840	ND
Trifloxystrobin	44 - 2739	ND

#### **Final Approval**

PREPARED BY / DATE

Karen Winternheimer 05May2023 12:31:00 PM MDT

Samantha Small 13:33:00 DA

APPROVED BY / DATE

Sam Smith 12:33:00 PM MDT



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## **Heavy Metals -Colorado Compliance**

Test ID: T000241816

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**

Gamantha Grand 05May2023 PREPARED BY / DATE

Sam Smith 12:10:00 PM MDT

Materihemer 12:14:00 PM MDT APPROVED BY / DATE

Karen Winternheimer 05May2023

## **Microbial**

## **Contaminants -**

## **Colorado Compliance**

Test ID: T000241815

Methods: TM25 (qPCR) TM24, TM26,

TM27 (Culture Plating): Microbial			Quantitation		
(Colorado Panel)	Method	LOD	Range	Result	N
STEC	TM25: PCR	10 <sup>0</sup> CFU/25g	NA	Absent	F — fo
Salmonella	TM25: PCR	10 <sup>0</sup> CFU/25g	NA	Absent	— 10
Total Yeast and Mold*	TM24: Culture Plating	10 <sup>1</sup> CFU/g	1.0x10 <sup>2</sup> - 1.5x10 <sup>4</sup>	None Detected	
Total Aerobic Count*	TM26: Culture Plating	10 <sup>2</sup> CFU/g	1.0x10 <sup>3</sup> - 1.5x10 <sup>5</sup>	None Detected	_
Total Coliforms*	TM27: Culture Plating	10 <sup>1</sup> CFU/g	1.0x10 <sup>2</sup> - 1.5x10 <sup>4</sup>	None Detected	_

Notes Free from visual mold, mildew, and foreign matter

**Final Approval** 

Eden Thompson

Eden Thompson-Wright 05May2023 02:00:00 PM MDT

At Value

**Brett Hudson** 05May2023 04:46:00 PM MDT

PREPARED BY / DATE



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https://results.botanacor.com/api/v1/coas/uuid/98a6b451-e8d1-43ad-a8ee-0820d2439688

#### **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. ISC/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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