

Prepared for:

BLUEBIRD BOTANICALS

PO BOX 271724 Louisville, CO USA 80027

GUM

Batch ID or Lot Number: 231009	Test, Test ID and Methods: Various	Matrix: Finished Product	Page 1 of 7
Reported:	Started:	Received:	
20Oct2023	18Oct2023	18Oct2023	

Residual Solvents -Colorado Compliance

Test ID: T000259186

Methods: TM04 (GC-MS): Residual

Solvents	Dynamic Range (ppm)	Result (ppm)	Notes
Propane	81 - 1615	ND	
Butanes (Isobutane, n-Butane)	159 - 3184	ND	
Methanol	55 - 1092	ND	
Pentane	78 - 1553	ND	
Ethanol	90 - 1795	ND	
Acetone	85 - 1703	ND	
Isopropyl Alcohol	99 - 1982	ND	
Hexane	5 - 102	ND	
Ethyl Acetate	89 - 1781	ND	
Benzene	0.2 - 3.5	ND	
Heptanes	82 - 1648	ND	
Toluene	16 - 326	ND	
Xylenes (m,p,o-Xylenes)	122 - 2439	ND	

Final Approval

PREPARED BY / DATE

Karen Winternheimer 20Oct2023

Menhemer 09:50:00 AM MDT

Somenthe Smot 200ct2023 10:01:00 AM MDT

Sam Smith



Prepared for:

BLUEBIRD BOTANICALS

PO BOX 271724 Louisville, CO USA 80027

GUM

Batch ID or Lot Number:	Test, Test ID and Methods:	Matrix:	Page 2 of 7
231009	Various	Finished Product	
Reported:	Started:	Received:	
20Oct2023	18Oct2023	18Oct2023	

Microbial **Contaminants -Colorado Compliance**

Test ID: T000259184

Methods: TM25 (qPCR) TM24, TM26,

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

Notes Free from visual mold, mildew, and foreign matter

Final Approval

Red Tehur

PREPARED BY / DATE

Brett Hudson 21Oct2023 12:59:00 PM MDT

Brianne Maillot Buanne Maillot 220ct2023

12:39:00 PM MDT



Prepared for:

BLUEBIRD BOTANICALS

PO BOX 271724 Louisville, CO USA 80027

GUM

Batch ID or Lot Number: 231009	Test, Test ID and Methods: Various	Matrix: Finished Product	Page 3 of 7
Reported:	Started:	Received:	
20Oct2023	18Oct2023	18Oct2023	

Cannabinoids - Colorado Compliance

Test ID: T000259181

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

Cannabinoid Analysis	LOD (mg)	LOQ (mg)	Result (mg)	Result (mg/g)	Notes
Cannabichromene (CBC)	0.333	1.122	<loq< td=""><td><loq< td=""><td># of Servings = 1</td></loq<></td></loq<>	<loq< td=""><td># of Servings = 1</td></loq<>	# of Servings = 1
Cannabichromenic Acid (CBCA)	0.305	1.026	ND	ND	Sample
Cannabidiol (CBD)	1.257	3.001	16.457	3.92	Weight=4.2g
Cannabidiolic Acid (CBDA)	1.290	3.078	ND	ND	
Cannabidivarin (CBDV)	0.297	0.710	ND	ND	
Cannabidivarinic Acid (CBDVA)	0.538	1.284	ND	ND	
Cannabigerol (CBG)	0.189	0.637	<loq< td=""><td><loq< td=""><td></td></loq<></td></loq<>	<loq< td=""><td></td></loq<>	
Cannabigerolic Acid (CBGA)	0.791	2.663	ND	ND	
Cannabinol (CBN)	0.247	0.831	ND	ND	
Cannabinolic Acid (CBNA)	0.540	1.817	ND	ND	
Delta 8-Tetrahydrocannabinol (Delta 8-THC)	0.943	3.172	ND	ND	
Delta 9-Tetrahydrocannabinol (Delta 9-THC)	0.856	2.881	ND	ND	
Delta 9-Tetrahydrocannabinolic Acid (THCA-A)	0.758	2.553	ND	ND	
Tetrahydrocannabivarin (THCV)	0.172	0.579	ND	ND	
Tetrahydrocannabivarinic Acid (THCVA)	0.669	2.251	ND	ND	
Total Cannabinoids			16.457	3.92	
Total Potential THC			ND	ND	
Total Potential CBD			16.457	3.92	

Final Approval

PREPARED BY / DATE

Karen Winternheimer 23Oct2023 Writernheimer 10:26:00 AM MDT

Sawantha Small 230ct2023 10:28:00 AM MDT

Sam Smith



Notes

Sample Weight=4.2g

of Servings = 1

Prepared for:

BLUEBIRD BOTANICALS

PO BOX 271724 Louisville, CO USA 80027

GUM

Batch ID or Lot Number: 231009	Test, Test ID and Methods: Various	Matrix: Finished Product	Page 4 of 7
Reported:	Started:	Received:	
20Oct2023	18Oct2023	18Oct2023	

Cannabinoids - Colorado Compliance

Test ID: T000259182

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

Cannabinoid Analysis	LOD (mg)	LOQ (mg)	Result (mg)	Result (mg/g)
Cannabichromene (CBC)	0.323	1.087	<loq< td=""><td><loq< td=""></loq<></td></loq<>	<loq< td=""></loq<>
Cannabichromenic Acid (CBCA)	0.296	0.995	ND	ND
Cannabidiol (CBD)	1.219	2.908	15.953	3.80
Cannabidiolic Acid (CBDA)	1.250	2.983	ND	ND
Cannabidivarin (CBDV)	0.288	0.688	ND	ND
Cannabidivarinic Acid (CBDVA)	0.521	1.244	ND	ND
Cannabigerol (CBG)	0.183	0.617	<loq< td=""><td><loq< td=""></loq<></td></loq<>	<loq< td=""></loq<>
Cannabigerolic Acid (CBGA)	0.767	2.581	ND	ND
Cannabinol (CBN)	0.239	0.805	ND	ND
Cannabinolic Acid (CBNA)	0.523	1.761	ND	ND
Delta 8-Tetrahydrocannabinol (Delta 8-THC)	0.914	3.075	ND	ND
Delta 9-Tetrahydrocannabinol (Delta 9-THC)	0.830	2.793	ND	ND
Delta 9-Tetrahydrocannabinolic Acid (THCA-A)	0.735	2.474	ND	ND
Tetrahydrocannabivarin (THCV)	0.167	0.562	ND	ND
Tetrahydrocannabivarinic Acid (THCVA)	0.648	2.182	ND	ND
Total Cannabinoids			15.953	3.80
Total Potential THC			ND	ND
Total Potential CBD			15.953	3.80

Final Approval

Winternheumer 10:26:00 AM MDT PREPARED BY / DATE

Karen Winternheimer 23Oct2023

Sawantha Small 230ct2023 10:28:00 AM MDT

Sam Smith

APPROVED BY / DATE

Heavy Metals -Colorado Compliance

Test ID: T000259185

Methods: TM19 (ICP-MS): Heavy

Metals	Dynamic Range (ppm)	Result (ppm)	Notes
Arsenic	0.04 - 4.39	ND	
Cadmium	0.04 - 4.47	ND	
Mercury	0.05 - 4.62	ND	
Lead	0.05 - 4.60	ND	

Final Approval

Samantha Smoll

PREPARED BY / DATE

Sam Smith 23Oct2023 01:08:00 PM MDT

Karen Winternheimer 23Oct2023 Withhelmer 01:11:00 PM MDT



Prepared for:

BLUEBIRD BOTANICALS

PO BOX 271724 Louisville, CO USA 80027

GUM

Batch ID or Lot Number: 231009	Test, Test ID and Methods: Various	Matrix: Finished Product	Page 5 of 7
Reported:	Started:	Received:	
20Oct2023	18Oct2023	18Oct2023	

Mycotoxins - Colorado Compliance

Test ID: T000259187

Methods: TM18 (UHPLC-QQQ

LCMS/MS): Mycotoxins	Dynamic Range (ppb)	Result (ppb)	Notes
Ochratoxin A	2.43 - 132.19	ND	N/A
Aflatoxin B1	0.98 - 33.08	ND	
Aflatoxin B2	0.92 - 32.82	ND	
Aflatoxin G1	0.95 - 33.28	ND	
Aflatoxin G2	1.12 - 33.93	ND	
Total Aflatoxins (B1, B2, G1, and G	2)	ND	

Final Approval

PREPARED BY / DATE

Sam Smith Samantha Smod

24Oct2023 07:50:00 AM MDT

APPROVED BY / DATE

Karen Winternheimer 24Oct2023 08:04:00 AM MDT



Prepared for:

BLUEBIRD BOTANICALS

PO BOX 271724 Louisville, CO USA 80027

GUM

Batch ID or Lot Number: 231009	Test, Test ID and Methods: Various	Matrix: Finished Product	Page 6 of 7
Reported:	Started:	Received:	
20Oct2023	18Oct2023	18Oct2023	

Pesticides

Test ID: T000259183 Methods: TM17

(LC-QQ LC MS/MS)	Dynamic Range (ppb)	Result (ppb)	
Abamectin	285 - 2621	ND	
Acephate	44 - 2875	ND	
Acetamiprid	46 - 2783	ND	
Azoxystrobin	45 - 2697	ND	
Bifenazate	40 - 2645	ND	
Boscalid	37 - 2708	ND	
Carbaryl	44 - 2656	ND	
Carbofuran	47 - 2714	ND	
Chlorantraniliprole	40 - 2711	ND	
Chlorpyrifos	41 - 2724	ND	
Clofentezine	275 - 2716	ND	
Diazinon	291 - 2673	ND	
Dichlorvos	336 - 2722	ND	
Dimethoate	44 - 2763	ND	
E-Fenpyroximate	278 - 2759	ND	
Etofenprox	45 - 2697	ND	
Etoxazole	278 - 2760	ND	
Fenoxycarb	17 - 2699	ND	
Fipronil	49 - 2700	ND	
Flonicamid	48 - 2802	ND	
Fludioxonil	294 - 2624	ND	
Hexythiazox	39 - 2728	ND	
Imazalil	267 - 2714	ND	
Imidacloprid	45 - 2904	ND	
Kresoxim-methyl	45 - 2652	ND	

	Dynamic Range (ppb)	Result (ppb)	
Malathion	290 - 2740	ND	
Metalaxyl	45 - 2686	ND	
Methiocarb	43 - 2692	ND	
Methomyl	44 - 2849	ND	
MGK 264 1	177 - 1656	ND	
MGK 264 2	116 - 1052	ND	
Myclobutanil	89 - 2626	ND	
Naled	48 - 2737	ND	
Oxamyl	43 - 2836	ND	
Paclobutrazol	47 - 2697	ND	
Permethrin	284 - 2728	ND	
Phosmet	45 - 2670	ND	
Prophos	306 - 2666	ND	
Propoxur	44 - 2699	ND	
Pyridaben	284 - 2750	ND	
Spinosad A	36 - 2032	ND	
Spinosad D	63 - 670	ND	
Spiromesifen	262 - 2730	ND	
Spirotetramat	295 - 2684	ND	
Spiroxamine 1	18 - 1176	ND	
Spiroxamine 2	24 - 1486	ND	
Tebuconazole	300 - 2719	ND	
Thiacloprid	44 - 2772	ND	
Thiamethoxam	43 - 2849	ND	
Trifloxystrobin	45 - 2697	ND	

Final Approval

PREPARED BY / DATE

Karen Winternheimer 25Oct2023 Menheumer 08:59:00 AM MDT

Samantha Smul 250ct2023 09:02:00 AM MDT

Sam Smith



Prepared for:

BLUEBIRD BOTANICALS

PO BOX 271724 Louisville, CO USA 80027

GUM

Batch ID or Lot Number: 231009	Test, Test ID and Methods: Various	Matrix: Finished Product	Page 7 of 7
Reported:	Started:	Received:	
20Oct2023	18Oct2023	18Oct2023	



https://results.botanacor.com/api/v1/coas/uuid/01e3feb0-d93f-4e20-bba6-7bb9cfe7af15

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 A2LA Cert #: 4329.02 Chemical; 4329.03 Biological. Some tests listed on this COA may not be within our scope of A2LA accreditation. Please visit A2LA for more details.





01e3feb0d93f4e20bba67bb9cfe7af15.1