

Prepared for:

BLUEBIRD BOTANICALS

PO BOX 271724 Louisville, CO USA 80027

SG

Batch ID or Lot Number:	Test, Test ID and Methods:	Matrix:	Page 1 of 6
321	Various	Unit	
Reported:	Started:	Received:	
05Mar2023	03Mar2023	02Mar2023	

Cannabinoids - Colorado Compliance

Test ID: T000237238

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

Cannabinoid Analysis	LOD (mg)	LOQ (mg)	Result (mg)	Result (mg/g)	Notes
Cannabichromene (CBC)	0.051	0.170	0.785	1.23	# of Servings = 1
Cannabichromenic Acid (CBCA)	0.047	0.156	ND	ND	Sample
Cannabidiol (CBD)	0.154	0.455	17.717	27.81	Weight=0.637g
Cannabidiolic Acid (CBDA)	0.158	0.467	ND	ND	
Cannabidivarin (CBDV)	0.037	0.108	ND	ND	
Cannabidivarinic Acid (CBDVA)	0.066	0.195	ND	ND	
Cannabigerol (CBG)	0.029	0.097	0.322	0.51	
Cannabigerolic Acid (CBGA)	0.121	0.404	ND	ND	
Cannabinol (CBN)	0.038	0.126	<loq< td=""><td><loq< td=""><td></td></loq<></td></loq<>	<loq< td=""><td></td></loq<>	
Cannabinolic Acid (CBNA)	0.083	0.276	ND	ND	
Delta 8-Tetrahydrocannabinol (Delta 8-THC)	0.144	0.482	ND	ND	
Delta 9-Tetrahydrocannabinol (Delta 9-THC)	0.131	0.438	<loq< td=""><td><loq< td=""><td></td></loq<></td></loq<>	<loq< td=""><td></td></loq<>	
Delta 9-Tetrahydrocannabinolic Acid (THCA-A)	0.116	0.388	ND	ND	
Tetrahydrocannabivarin (THCV)	0.026	0.088	ND	ND	
Tetrahydrocannabivarinic Acid (THCVA)	0.102	0.342	ND	ND	
Total Cannabinoids			18.824	29.55	
Total Potential THC			<loq< td=""><td><loq< td=""><td></td></loq<></td></loq<>	<loq< td=""><td></td></loq<>	
Total Potential CBD			17.717	27.81	

Final Approval

PREPARED BY / DATE

Karen Winternheimer 05Mar2023 Materihemen 01:28:00 PM MST

Sam Smith Samuella Small 05Mar2023 01:35:00 PM MST



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Residual Solvents -Colorado Compliance

Test ID: T000237243

Methods: TM04 (GC-MS): Residual

Solvents	Dynamic Range (ppm)	Result (ppm)	Notes
Propane	98 - 1952	ND	
Butanes (Isobutane, n-Butane)	200 - 4004	ND	
Methanol	59 - 1183	ND	
Pentane	98 - 1959	ND	
Ethanol	96 - 1922	ND	
Acetone	97 - 1947	ND	
Isopropyl Alcohol	100 - 1990	ND	
Hexane	6 - 118	ND	
Ethyl Acetate	100 - 1995	ND	
Benzene	0.2 - 3.9	ND	
Heptanes	98 - 1965	ND	
Toluene	17 - 348	ND	
Xylenes (m,p,o-Xylenes)	128 - 2553	ND	_

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MUNHOUME 01:55:00 PM MST

Karen Winternheimer 05Mar2023

Sawantha Smot 05Mar2023 01:56:00 PM MST

Sam Smith



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Cannabinoids - Colorado Compliance

Test ID: T000237239

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

Cannabinoid Analysis	LOD (mg)	LOQ (mg)	Result (mg)	Result (mg/g)	Notes
Cannabichromene (CBC)	0.051	0.170	0.779	1.28	# of Servings = 1
Cannabichromenic Acid (CBCA)	0.047	0.156	ND	ND	Sample
Cannabidiol (CBD)	0.154	0.455	17.617	28.87	Weight=0.61g
Cannabidiolic Acid (CBDA)	0.158	0.467	ND	ND	
Cannabidivarin (CBDV)	0.037	0.108	ND	ND	
Cannabidivarinic Acid (CBDVA)	0.066	0.195	ND	ND	
Cannabigerol (CBG)	0.029	0.097	0.318	0.52	
Cannabigerolic Acid (CBGA)	0.121	0.404	ND	ND	
Cannabinol (CBN)	0.038	0.126	<loq< td=""><td><loq< td=""><td></td></loq<></td></loq<>	<loq< td=""><td></td></loq<>	
Cannabinolic Acid (CBNA)	0.083	0.276	ND	ND	
Delta 8-Tetrahydrocannabinol (Delta 8-THC)	0.144	0.482	ND	ND	
Delta 9-Tetrahydrocannabinol (Delta 9-THC)	0.131	0.438	<loq< td=""><td><loq< td=""><td></td></loq<></td></loq<>	<loq< td=""><td></td></loq<>	
Delta 9-Tetrahydrocannabinolic Acid (THCA-A)	0.116	0.388	ND	ND	
Tetrahydrocannabivarin (THCV)	0.026	0.088	ND	ND	
Tetrahydrocannabivarinic Acid (THCVA)	0.102	0.342	ND	ND	
Total Cannabinoids			18.714	30.67	
Total Potential THC			<loq< td=""><td><loq< td=""><td></td></loq<></td></loq<>	<loq< td=""><td></td></loq<>	
Total Potential CBD			17.617	28.87	

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Karen Winternheimer 05Mar2023

Somethe Small 05Mar2023 01:35:00 PM MST

Sam Smith

APPROVED BY / DATE

Heavy Metals -Colorado Compliance

Test ID: T000237242

Methods: TM19 (ICP-MS): Heavy

Metals	Dynamic Range (ppm)	Result (ppm)	Notes
Arsenic	0.04 - 3.91	ND	
Cadmium	0.04 - 4.16	ND	
Mercury	0.04 - 4.28	ND	
Lead	0.04 - 4.27	ND	

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Samantha Smoll

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Sam Smith 06Mar2023 01:15:00 PM MST

Karen Winternheimer 06Mar2023 Wilmhelmer 01:20:00 PM MST



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Pesticides

Test ID: T000237240 Methods: TM17

(LC-QQ LC MS/MS)	Dynamic Range (ppb)	Result (ppb)
Abamectin	274 - 2735	ND
Acephate	42 - 2843	ND
Acetamiprid	43 - 2741	ND
Azoxystrobin	46 - 2739	ND
Bifenazate	40 - 2717	ND
Boscalid	41 - 2786	ND
Carbaryl	40 - 2732	ND
Carbofuran	43 - 2708	ND
Chlorantraniliprole	45 - 2756	ND
Chlorpyrifos	47 - 2688	ND
Clofentezine	284 - 2721	ND
Diazinon	271 - 2740	ND
Dichlorvos	276 - 2772	ND
Dimethoate	41 - 2741	ND
E-Fenpyroximate	295 - 2714	ND
Etofenprox	38 - 2762	ND
Etoxazole	292 - 2691	ND
Fenoxycarb	47 - 2745	ND
Fipronil	56 - 2744	ND
Flonicamid	45 - 2756	ND
Fludioxonil	320 - 2783	ND
Hexythiazox	47 - 2702	ND
Imazalil	271 - 2769	ND
Imidacloprid	44 - 2726	ND
Kresoxim-methyl	42 - 2760	ND

	Dynamic Range (ppb)	Result (ppb)
Malathion	291 - 2753	ND
Metalaxyl	42 - 2734	ND
Methiocarb	42 - 2774	ND
Methomyl	39 - 2755	ND
MGK 264 1	165 - 1610	ND
MGK 264 2	114 - 1142	ND
Myclobutanil	34 - 2832	ND
Naled	48 - 2780	ND
Oxamyl	40 - 2760	ND
Paclobutrazol	46 - 2691	ND
Permethrin	284 - 2754	ND
Phosmet	38 - 2721	ND
Prophos	291 - 2792	ND
Propoxur	42 - 2716	ND
Pyridaben	295 - 2740	ND
Spinosad A	34 - 2233	ND
Spinosad D	47 - 490	ND
Spiromesifen	267 - 2738	ND
Spirotetramat	285 - 2753	ND
Spiroxamine 1	18 - 1195	ND
Spiroxamine 2	24 - 1567	ND
Tebuconazole	289 - 2722	ND
Thiacloprid	41 - 2735	ND
Thiamethoxam	40 - 2743	ND
Trifloxystrobin	44 - 2743	ND

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Garrantha Small 08Mar2023 08:24:00 AM MST

PREPARED BY / DATE

Writenheumer 08:29:00 AM MST

Karen Winternheimer 08Mar2023



Notes

foreign matter

Free from visual mold, mildew, and

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Mycotoxins - Colorado Compliance

Test ID: T000237244

Methods: TM18 (UHPLC-QQQ

LCMS/MS): Mycotoxins	Dynamic Range (ppb)	Result (ppb)	Notes
Ochratoxin A	2.30 - 134.80	ND	N/A
Aflatoxin B1	0.97 - 33.49	ND	
Aflatoxin B2	0.94 - 33.17	ND	
Aflatoxin G1	0.94 - 33.85	ND	
Aflatoxin G2	2.17 - 33.68	ND	
Total Aflatoxins (B1, B2, G1, and G	2)	ND	

Final Approval

Sawantha Smol 09Mar2023 07:45:00 AM MST

Sam Smith

Karen Winternheimer 09Mar2023 MEMPLEMEN 07:48:00 AM MST

Microbial

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Contaminants -Colorado Compliance

Test ID: T000237241

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

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Redt Taken PREPARED BY / DATE

Brett Hudson 09Mar2023 03:48:00 PM MST

Eden Thompson-Wright 09Mar2023 04:15:00 PM MST



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https://results.botanacor.com/api/v1/coas/uuid/074a5bc4-f361-4a7e-a789-03c889a2cad9

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-THC + (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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