

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

TF-30


Batch ID or Lot Number: 3310491314	Test, Test ID and Methods: Various	Matrix: Concentrate	Page 1 of 6
Reported: 08Dec2023	Started: 08Dec2023	Received: 07Dec2023	


Residual Solvents - Colorado Compliance

Test ID: T000263830
Methods: TM04 (GC-MS): Residual

Solvents	Dynamic Range (ppm)	Result (ppm)	Notes
Propane	104 - 2081	ND	
Butanes (Isobutane, n-Butane)	196 - 3929	ND	
Methanol	59 - 1172	ND	
Pentane	100 - 1994	ND	
Ethanol	94 - 1882	ND	
Acetone	95 - 1901	ND	
Isopropyl Alcohol	96 - 1915	ND	
Hexane	6 - 121	ND	
Ethyl Acetate	96 - 1926	ND	
Benzene	0.2 - 3.8	ND	
Heptanes	97 - 1941	ND	
Toluene	17 - 331	ND	
Xylenes (m,p,o-Xylenes)	115 - 2304	ND	

Final Approval


Karen Winternheimer
08Dec2023
01:56:00 PM MST
PREPARED BY / DATE


Sam Smith
08Dec2023
02:04:00 PM MST
APPROVED BY / DATE

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

TF-30


Batch ID or Lot Number: 3310491314	Test, Test ID and Methods: Various	Matrix: Concentrate	Page 2 of 6
Reported: 08Dec2023	Started: 08Dec2023	Received: 07Dec2023	

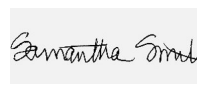
Cannabinoids - Colorado Compliance

Test ID: T000263825
Methods: TM14 (HPLC-DAD): Potency – Standard
Cannabinoid Analysis

	LOD (mg/mL)	LOQ (mg/mL)	Result (mg/mL)	Result (mg/g)	Notes
Cannabichromene (CBC)	0.066	0.218	ND	ND	Density = 0.945g/mL
Cannabichromenic Acid (CBCA)	0.061	0.200	ND	ND	
Cannabidiol (CBD)	0.178	0.549	52.509	55.57	
Cannabidiolic Acid (CBDA)	0.183	0.563	ND	ND	
Cannabidivarin (CBDV)	0.042	0.130	0.275	0.29	
Cannabidivarinic Acid (CBDVA)	0.076	0.235	ND	ND	
Cannabigerol (CBG)	0.038	0.124	ND	ND	
Cannabigerolic Acid (CBGA)	0.157	0.518	ND	ND	
Cannabinol (CBN)	0.049	0.162	ND	ND	
Cannabinolic Acid (CBNA)	0.107	0.353	ND	ND	
Delta 8-Tetrahydrocannabinol (Delta 8-THC)	0.188	0.617	ND	ND	
Delta 9-Tetrahydrocannabinol (Delta 9-THC)	0.170	0.560	ND	ND	
Delta 9-Tetrahydrocannabinolic Acid (THCA-A)	0.151	0.496	ND	ND	
Tetrahydrocannabivarin (THCV)	0.034	0.113	ND	ND	
Tetrahydrocannabivarinic Acid (THCVA)	0.133	0.438	ND	ND	
Total Cannabinoids			52.784	55.86	
Total Potential THC			ND	ND	
Total Potential CBD			52.509	55.57	

Final Approval


Karen Winternheimer
10Dec2023
10:29:00 AM MST
PREPARED BY / DATE


Sam Smith
10Dec2023
10:30:00 AM MST
APPROVED BY / DATE

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

TF-30

Batch ID or Lot Number: 3310491314	Test, Test ID and Methods: Various	Matrix: Concentrate	Page 3 of 6
Reported: 08Dec2023	Started: 08Dec2023	Received: 07Dec2023	


Cannabinoids - Colorado Compliance

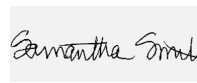
Test ID: T000263826

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

Cannabinoid Analysis	LOD (mg/mL)	LOQ (mg/mL)	Result (mg/mL)	Result (mg/g)	Notes
Cannabichromene (CBC)	0.062	0.205	ND	ND	Density = 0.945g/mL
Cannabichromenic Acid (CBCA)	0.057	0.187	ND	ND	
Cannabidiol (CBD)	0.167	0.515	52.681	55.75	
Cannabidiolic Acid (CBDA)	0.172	0.528	ND	ND	
Cannabidivarin (CBDV)	0.040	0.122	0.286	0.30	
Cannabidivarinic Acid (CBDVA)	0.072	0.220	ND	ND	
Cannabigerol (CBG)	0.035	0.116	ND	ND	
Cannabigerolic Acid (CBGA)	0.148	0.485	ND	ND	
Cannabinol (CBN)	0.046	0.152	ND	ND	
Cannabinolic Acid (CBNA)	0.101	0.331	ND	ND	
Delta 8-Tetrahydrocannabinol (Delta 8-THC)	0.176	0.578	ND	ND	
Delta 9-Tetrahydrocannabinol (Delta 9-THC)	0.160	0.525	ND	ND	
Delta 9-Tetrahydrocannabinolic Acid (THCA-A)	0.141	0.465	ND	ND	
Tetrahydrocannabivarin (THCV)	0.032	0.106	ND	ND	
Tetrahydrocannabivarinic Acid (THCVA)	0.125	0.411	ND	ND	
Total Cannabinoids			52.967	56.05	
Total Potential THC			ND	ND	
Total Potential CBD			52.681	55.75	

Final Approval


Karen Winternheimer
10Dec2023
10:29:00 AM MST
PREPARED BY / DATE


Sam Smith
10Dec2023
10:30:00 AM MST
APPROVED BY / DATE


Heavy Metals - Colorado Compliance


Test ID: T000263829

Methods: TM19 (ICP-MS): Heavy

Metals	Dynamic Range (ppm)	Result (ppm)	Notes
Arsenic	0.04 - 4.38	ND	
Cadmium	0.04 - 4.34	ND	
Mercury	0.04 - 4.37	ND	
Lead	0.05 - 4.62	ND	

Final Approval


Sam Smith
11Dec2023
02:43:00 PM MST
PREPARED BY / DATE


Karen Winternheimer
11Dec2023
02:48:00 PM MST
APPROVED BY / DATE

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

TF-30


Batch ID or Lot Number: 3310491314	Test, Test ID and Methods: Various	Matrix: Concentrate	Page 4 of 6
Reported: 08Dec2023	Started: 08Dec2023	Received: 07Dec2023	

Microbial Contaminants - Colorado Compliance

Test ID: T000263828
Methods: TM25 (qPCR) TM24, TM26,
TM27 (Culture Plating): Microbial
(Colorado Panel)

	Method	LOD	Quantitation Range	Result	Notes
STEC	TM25: PCR	10 ⁰ CFU/25g	NA	Absent	Free from visual mold, mildew, and foreign matter
<i>Salmonella</i>	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


Brett Hudson
11Dec2023
03:48:00 PM MST
PREPARED BY / DATE


Eden Thompson-Wright
11Dec2023
04:20:00 PM MST
APPROVED BY / DATE

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

TF-30

Batch ID or Lot Number: 3310491314	Test, Test ID and Methods: Various	Matrix: Concentrate	Page 5 of 6
Reported: 08Dec2023	Started: 08Dec2023	Received: 07Dec2023	


Pesticides


Test ID: T000263827

Methods: TM17

(LC-QQ LC MS/MS)	Dynamic Range (ppb)	Result (ppb)		Dynamic Range (ppb)	Result (ppb)	
Abamectin	369 - 2756	ND		Malathion	300 - 2705	ND
Acephate	40 - 2759	ND		Metalaxyl	42 - 2722	ND
Acetamiprid	43 - 2717	ND		Methiocarb	38 - 2766	ND
Azoxystrobin	45 - 2715	ND		Methomyl	41 - 2793	ND
Bifenazate	38 - 2712	ND		MGK 264 1	156 - 1616	ND
Boscalid	46 - 2722	ND		MGK 264 2	109 - 1091	ND
Carbaryl	43 - 2699	ND		Myclobutanil	52 - 2695	ND
Carbofuran	45 - 2694	ND		Naled	48 - 2703	ND
Chlorantraniliprole	43 - 2754	ND		Oxamyl	42 - 2788	ND
Chlorpyrifos	29 - 2786	ND		Paclobutrazol	41 - 2700	ND
Clofentezine	291 - 2740	ND		Permethrin	299 - 2784	ND
Diazinon	288 - 2718	ND		Phosmet	42 - 2607	ND
Dichlorvos	276 - 2755	ND		Prophos	295 - 2755	ND
Dimethoate	41 - 2731	ND		Propoxur	44 - 2707	ND
E-Fenpyroximate	292 - 2790	ND		Pyridaben	310 - 2748	ND
Etofenprox	43 - 2761	ND		Spinosad A	34 - 2090	ND
Etoxazole	290 - 2679	ND		Spinosad D	73 - 669	ND
Fenoxycarb	22 - 2752	ND		Spiromesifen	248 - 2750	ND
Fipronil	53 - 2782	ND		Spirotetramat	282 - 2756	ND
Flonicamid	45 - 2796	ND		Spiroxamine 1	16 - 1022	ND
Fludioxonil	302 - 2692	ND		Spiroxamine 2	24 - 1608	ND
Hexythiazox	40 - 2782	ND		Tebuconazole	297 - 2700	ND
Imazalil	264 - 2756	ND		Thiacloprid	43 - 2749	ND
Imidacloprid	40 - 2801	ND		Thiamethoxam	44 - 2773	ND
Kresoxim-methyl	41 - 2740	ND		Trifloxystrobin	46 - 2713	ND

Final Approval


Karen Winternheimer
13Dec2023
09:05:00 AM MST
PREPARED BY / DATE


Sam Smith
13Dec2023
09:07:00 AM MST
APPROVED BY / DATE

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

TF-30


Batch ID or Lot Number: 3310491314	Test, Test ID and Methods: Various	Matrix: Concentrate	Page 6 of 6
Reported: 08Dec2023	Started: 08Dec2023	Received: 07Dec2023	


Mycotoxins - Colorado Compliance

Test ID: T000263831
Methods: TM18 (UHPLC-QQQ)

LCMS/MS): Mycotoxins	Dynamic Range (ppb)	Result (ppb)	Notes
Ochratoxin A	3.34 - 125.65	ND	N/A
Aflatoxin B1	1.28 - 31.92	ND	
Aflatoxin B2	1.41 - 31.63	ND	
Aflatoxin G1	1.35 - 31.95	ND	
Aflatoxin G2	1.44 - 32.43	ND	
Total Aflatoxins (B1, B2, G1, and G2)		ND	

Final Approval


Samantha Simola
15Dec2023
06:47:00 AM MST
PREPARED BY / DATE


Karen Winternheimer
15Dec2023
11:32:00 AM MST
APPROVED BY / DATE



<https://results.botanacor.com/api/v1/coas/uuid/d2be3831-8ac3-456d-9b27-fc5ee3fb2f54>

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 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](#).



Cert #4329.02
d2be38318ac3456d9b27fc5ee3fb2f54.1