

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

## DS-30

Batch ID or Lot Number: <b>LB-N-60508</b>	Test, Test ID and Methods: Various	Matrix: Concentrate	Page 1 of 6
Reported: <b>20Dec2023</b>	Started: 19Dec2023	Received: 18Dec2023	


## Residual Solvents - Colorado Compliance

Test ID: T000264931  
Methods: TM04 (GC-MS): Residual

Solvents	Dynamic Range (ppm)	Result (ppm)	Notes
Propane	97 - 1939	ND	
Butanes (Isobutane, n-Butane)	187 - 3750	ND	
Methanol	66 - 1317	ND	
Pentane	101 - 2020	ND	
Ethanol	108 - 2161	ND	
Acetone	106 - 2115	ND	
Isopropyl Alcohol	116 - 2320	ND	
Hexane	6 - 128	ND	
Ethyl Acetate	106 - 2119	ND	
Benzene	0.2 - 4.2	ND	
Heptanes	103 - 2066	ND	
Toluene	19 - 385	ND	
Xylenes (m,p,o-Xylenes)	143 - 2858	ND	

### Final Approval

  
Karen Winternheimer  
20Dec2023  
10:15:00 AM MST  
PREPARED BY / DATE

  
Sam Smith  
20Dec2023  
10:38:00 AM MST  
APPROVED BY / DATE

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## Heavy Metals - Colorado Compliance


Test ID: T000264930  
Methods: TM19 (ICP-MS): Heavy Metals

Metals	Dynamic Range (ppm)	Result (ppm)	Notes
Arsenic	0.04 - 4.06	ND	
Cadmium	0.04 - 4.19	ND	
Mercury	0.04 - 4.23	ND	
Lead	0.04 - 4.16	ND	

### Final Approval

  
Sam Smith  
20Dec2023  
09:15:00 AM MST

PREPARED BY / DATE

  
Karen Winternheimer  
20Dec2023  
10:52:00 AM MST


APPROVED BY / DATE

## Cannabinoids - Colorado Compliance

Test ID: T000264926  
Methods: TM14 (HPLC-DAD): Potency - Standard

Cannabinoid Analysis	LOD (mg/mL)	LOQ (mg/mL)	Result (mg/mL)	Result (mg/g)	Notes
Cannabichromene (CBC)	0.056	0.187	0.894	0.95	Density = 0.945g/mL
Cannabichromenic Acid (CBCA)	0.051	0.171	ND	ND	
Cannabidiol (CBD)	0.161	0.474	24.545	25.97	
Cannabidiolic Acid (CBDA)	0.166	0.486	<LOQ	<LOQ	
Cannabidivarin (CBDV)	0.038	0.112	0.175	0.19	
Cannabidivarinic Acid (CBDVA)	0.069	0.203	ND	ND	
Cannabigerol (CBG)	0.032	0.106	0.439	0.46	
Cannabigerolic Acid (CBGA)	0.133	0.444	ND	ND	
Cannabinol (CBN)	0.041	0.138	5.896	6.24	
Cannabinolic Acid (CBNA)	0.091	0.303	ND	ND	
Delta 8-Tetrahydrocannabinol (Delta 8-THC)	0.158	0.529	ND	ND	
Delta 9-Tetrahydrocannabinol (Delta 9-THC)	0.144	0.480	0.768	0.81	
Delta 9-Tetrahydrocannabinolic Acid (THCA-A)	0.127	0.425	ND	ND	
Tetrahydrocannabivarin (THCV)	0.029	0.097	ND	ND	
Tetrahydrocannabivarinic Acid (THCVA)	0.112	0.375	ND	ND	
<b>Total Cannabinoids</b>			<b>32.717</b>	<b>34.62</b>	
Total Potential THC			0.768	0.81	
Total Potential CBD			24.545	25.97	

### Final Approval

  
Karen Winternheimer  
20Dec2023  
11:33:00 AM MST

PREPARED BY / DATE

  
Sam Smith  
20Dec2023  
11:35:00 AM MST

APPROVED BY / DATE

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## Cannabinoids - Colorado Compliance


Test ID: T000264927

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

Cannabinoid Analysis	LOD (mg/mL)	LOQ (mg/mL)	Result (mg/mL)	Result (mg/g)	Notes
Cannabichromene (CBC)	0.051	0.171	0.907	0.96	Density = 0.945g/mL
Cannabichromenic Acid (CBCA)	0.047	0.157	ND	ND	
Cannabidiol (CBD)	0.148	0.434	24.965	26.42	
Cannabidiolic Acid (CBDA)	0.152	0.445	<LOQ	<LOQ	
Cannabidivarin (CBDV)	0.035	0.103	0.178	0.19	
Cannabidivarinic Acid (CBDVA)	0.063	0.186	ND	ND	
Cannabigerol (CBG)	0.029	0.097	0.443	0.47	
Cannabigerolic Acid (CBGA)	0.122	0.407	ND	ND	
Cannabinol (CBN)	0.038	0.127	5.992	6.34	
Cannabinolic Acid (CBNA)	0.083	0.277	ND	ND	
Delta 8-Tetrahydrocannabinol (Delta 8-THC)	0.145	0.484	ND	ND	
Delta 9-Tetrahydrocannabinol (Delta 9-THC)	0.132	0.440	0.789	0.83	
Delta 9-Tetrahydrocannabinolic Acid (THCA-A)	0.117	0.390	ND	ND	
Tetrahydrocannabivarin (THCV)	0.026	0.088	ND	ND	
Tetrahydrocannabivarinic Acid (THCVA)	0.103	0.344	ND	ND	
<b>Total Cannabinoids</b>			<b>33.274</b>	<b>35.21</b>	
Total Potential THC			0.789	0.83	
Total Potential CBD			24.965	26.42	

### Final Approval

  
Karen Winternheimer  
20Dec2023  
11:33:00 AM MST  
PREPARED BY / DATE

  
Sam Smith  
20Dec2023  
11:35:00 AM MST  
APPROVED BY / DATE

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## Mycotoxins - Colorado Compliance

Test ID: T000264932  
Methods: TM18 (UHPLC-QQQ)  
LCMS/MS: Mycotoxins

	Dynamic Range (ppb)	Result (ppb)	Notes
Ochratoxin A	1.81 - 129.24	ND	N/A
Aflatoxin B1	0.97 - 32.07	ND	
Aflatoxin B2	1.47 - 32.26	ND	
Aflatoxin G1	0.97 - 32.38	ND	
Aflatoxin G2	1.09 - 32.72	ND	
Total Aflatoxins (B1, B2, G1, and G2)		ND	

### Final Approval

  
Samantha Simola  
PREPARED BY / DATE

Sam Smith  
22Dec2023  
08:04:00 AM MST

  
K. Winternheimer  
APPROVED BY / DATE

Karen Winternheimer  
22Dec2023  
08:07:00 AM MST

## Microbial Contaminants - Colorado Compliance

Test ID: T000264929  
Methods: TM25 (qPCR) TM24, TM26,  
TM27 (Culture Plating): Microbial  
(Colorado Panel)

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

### Final Approval

  
Eden Thompson-Wright  
PREPARED BY / DATE

Eden Thompson-Wright  
22Dec2023  
10:32:00 AM MST

  
Brianne Maillot  
APPROVED BY / DATE

Brianne Maillot  
22Dec2023  
02:31:00 PM MST

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## Pesticides


Test ID: T000264928

Methods: TM17

(LC-QQ LC MS/MS)	Dynamic Range (ppb)	Result (ppb)		Dynamic Range (ppb)	Result (ppb)	
Abamectin	365 - 2850	ND		Malathion	296 - 2720	ND
Acephate	42 - 2697	ND		Metalaxyl	39 - 2698	ND
Acetamiprid	41 - 2724	ND		Methiocarb	42 - 2709	ND
Azoxystrobin	41 - 2696	ND		Methomyl	40 - 2754	ND
Bifenazate	42 - 2662	ND		MGK 264 1	170 - 1649	ND
Boscalid	37 - 2605	ND		MGK 264 2	115 - 1109	ND
Carbaryl	42 - 2643	ND		Myclobutanil	72 - 2717	ND
Carbofuran	42 - 2668	ND		Naled	44 - 2578	ND
Chlorantraniliprole	47 - 2712	ND		Oxamyl	40 - 2742	ND
Chlorpyrifos	22 - 2824	ND		Paclobutrazol	40 - 2620	ND
Clofentezine	286 - 2739	ND		Permethrin	266 - 2818	ND
Diazinon	274 - 2706	ND		Phosmet	42 - 2573	ND
Dichlorvos	206 - 2817	ND		Prophos	279 - 2726	ND
Dimethoate	42 - 2753	ND		Propoxur	41 - 2627	ND
E-Fenpyroximate	252 - 2816	ND		Pyridaben	298 - 2816	ND
Etofenprox	45 - 2800	ND		Spinosad A	33 - 2034	ND
Etoazole	296 - 2715	ND		Spinosad D	67 - 684	ND
Fenoxycarb	47 - 2694	ND		Spiromesifen	274 - 2821	ND
Fipronil	40 - 2846	ND		Spirotetramat	270 - 2754	ND
Flonicamid	50 - 2811	ND		Spiroxamine 1	15 - 1002	ND
Fludioxonil	293 - 2731	ND		Spiroxamine 2	25 - 1561	ND
Hexythiazox	40 - 2850	ND		Tebuconazole	268 - 2629	ND
Imazalil	287 - 2684	ND		Thiacloprid	42 - 2734	ND
Imidacloprid	40 - 2717	ND		Thiamethoxam	43 - 2762	ND
Kresoxim-methyl	38 - 2748	ND		Trifloxystrobin	42 - 2672	ND

## Final Approval

 Karen Winternheimer  
24Dec2023  
11:01:00 AM MST  
PREPARED BY / DATE

 Sam Smith  
24Dec2023  
11:04:00 AM MST  
APPROVED BY / DATE

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<https://results.botanacor.com/api/v1/coas/uuid/9ab2bfd3-fc72-4fef-b909-a6345875ba10>

**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<sup>2</sup> = 100 CFU, 10<sup>3</sup> = 1,000 CFU, 10<sup>4</sup> = 10,000 CFU, 10<sup>5</sup> = 100,000 CFU.

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