



CERTIFICATE OF ANALYSIS

PRODUCT NAME: THC:CBD Gummies
PRODUCT STRENGTH: 25mg CBD, 2.5 mg THC
BATCH: Various lots expiring 05/03/2024
BEST BY DATE: 5/03/2024
EXTRACT LOT: 00625

Physical Attributes

Test	Method	Specification	Results
Color	Internal	Multicolored	PASS
Odor	Internal	Sweet	PASS
Appearance	Internal	Sugar Coated	PASS
Primary Package Eval.	Internal	Container clean and free of filth. Container caps tight and seals intact	PASS
Secondary Package Eval.	Internal	Labeling Compliance Checked, Sufficient cushion material exists. Box taped and secure.	PASS

Review of Third-Party Analysis

Panel	Method	Specification	Results*	Pass/Fail
Potency - Total CBD	HPLC-UV DAD	*LOQ: ≥ 10 mg / gummy	31.02mg	PASS
Potency - D9-THC	HPLC-UV DAD	LOQ: $<0.01\%$ (broad spectrum)	3.06mg	PASS
Expanded Pesticide Panel	HPLC-QQQ	LOQ: Complies with CDPHE 6 CCR 1010-21 Industrial Hemp Extract	Below LOQ	PASS
Microbial Escherichia coli (STEC)	PCR	Complies with CDPHE 6 CCR 1010-21 - LOQ 1 **CFU/25	Absent	PASS
Microbial Salmonella	PCR	Complies with CDPHE 6 CCR 1010-21 - LOQ 1 CFU/25 gram	Absent	PASS
Microbial Yeast and Mold	Culture Plating	Complies with CDPHE 6 CCR 1010-21 - LOQ 10^2 CFU/gram	Below LOQ	PASS
Microbial Total Coliforms*	Culture Plating	Complies with CDPHE 6 CCR 1010-21 - LOQ 10^2 CFU/gram	Below LOQ	PASS
Microbial Total Aerobic Count*	Culture Plating	Complies with CDPHE 6 CCR 1010-21 - LOQ 10^3 CFU/gram	Below LOQ	PASS
Heavy Metals	ICP-MS	Arsenic (As): ≤ 1.5 ppm† Cadmium (Cd): ≤ 0.5 ppm Lead (Pb): ≤ 0.5 ppm Mercury (Hg): ≤ 1.5 ppm	Below LOQ	PASS
Mycotoxins	ICP-MS	Total Aflatoxins <20 ppb†† Afltoxin B1 < 5 ppb Ochratoxin < 5 ppb	Below LOQ	PASS
Residual Solvents	GC-HS-MSD	LOQ: Complies with CDPHE 6 CCR in effect during MFG*	Below LOQ	PASS

*Level of Quantification
 **Colony Forming Units per Gram
 † Parts Per Million †† Part Per Billion

Values expressed in scientific notation.
 Examples:
 $10^2=100$
 $10^3=1,000$

Quality Certified  Date 5/13/22

10:1 25mg Orange Mother Liquor

Batch ID or Lot Number: 00625	Test, Test ID and Methods: Various	Matrix: Concentrate	Page 1 of 5
Reported: 29Apr2022	Started: 29Apr2022	Received: 29Apr2022	

Cannabinoids - Colorado Compliance


Test ID: T000204007

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

Cannabinoid Analysis

	LOD (%)	LOQ (%)	Result (%)	Result (mg/g)	Notes
Cannabichromene (CBC)	0.008	0.025	0.118	1.18	
Cannabichromenic Acid (CBCA)	0.007	0.022	ND	ND	
Cannabidiol (CBD)	0.019	0.061	0.940	9.40	
Cannabidiolic Acid (CBDA)	0.020	0.063	ND	ND	
Cannabidivarin (CBDV)	0.005	0.015	0.016	0.16	
Cannabidivarinic Acid (CBDVA)	0.008	0.026	ND	ND	
Cannabigerol (CBG)	0.005	0.014	0.067	0.67	
Cannabigerolic Acid (CBGA)	0.019	0.058	ND	ND	
Cannabinol (CBN)	0.006	0.018	0.023	0.23	
Cannabinolic Acid (CBNA)	0.013	0.040	ND	ND	
Delta 8-Tetrahydrocannabinol (Delta 8-THC)	0.023	0.069	ND	ND	
Delta 9-Tetrahydrocannabinol (Delta 9-THC)	0.021	0.063	0.093	0.93	
Delta 9-Tetrahydrocannabinolic Acid (THCA-A)	0.018	0.056	ND	ND	
Tetrahydrocannabivarin (THCV)	0.004	0.013	ND	ND	
Tetrahydrocannabivarinic Acid (THCVA)	0.016	0.049	ND	ND	
Total Cannabinoids			1.257	12.57	
Total Potential THC			0.093	0.93	
Total Potential CBD			0.940	9.40	

Final Approval


Sam Smith
29Apr2022
02:12:00 PM MDT
PREPARED BY / DATE


Jacob Miller
29Apr2022
02:15:00 PM MDT
APPROVED BY / DATE

10:1 25mg Orange Mother Liquor

Batch ID or Lot Number: 00625	Test, Test ID and Methods: Various	Matrix: Concentrate	Page 2 of 5
Reported: 29Apr2022	Started: 29Apr2022	Received: 29Apr2022	

Microbial Contaminants - Colorado Compliance

Test ID: T000204009
 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



Eden Thompson-Wright
 02May2022
 04:08:00 PM MDT

PREPARED BY / DATE



Brianne Maillot
 02May2022
 04:58:00 PM MDT

APPROVED BY / DATE

10:1 25mg Orange Mother Liquor


Batch ID or Lot Number: 00625	Test, Test ID and Methods: Various	Matrix: Concentrate	Page 3 of 5
Reported: 29Apr2022	Started: 29Apr2022	Received: 29Apr2022	

**Residual Solvents -
Colorado Compliance**

Test ID: T000204011

Methods: TM04 (GC-MS): Residual

Solvents	Dynamic Range (ppm)	Result (ppm)	Notes
Propane	77 - 1539	ND	
Butanes (Isobutane, n-Butane)	154 - 3082	ND	
Methanol	57 - 1138	ND	
Pentane	81 - 1630	ND	
Ethanol	89 - 1778	1526	
Acetone	93 - 1851	ND	
Isopropyl Alcohol	101 - 2020	ND	
Hexane	6 - 110	ND	
Ethyl Acetate	93 - 1859	ND	
Benzene	0.2 - 3.9	ND	
Heptanes	91 - 1818	ND	
Toluene	17 - 343	ND	
Xylenes (m,p,o-Xylenes)	127 - 2546	ND	

Final Approval

Sam Smith
02May2022
04:21:00 PM MDT

PREPARED BY / DATE



Hannah Wright
02May2022
04:23:00 PM MDT

APPROVED BY / DATE

10:1 25mg Orange Mother Liquor

Batch ID or Lot Number: 00625	Test, Test ID and Methods: Various	Matrix: Concentrate	Page 4 of 5
Reported: 29Apr2022	Started: 29Apr2022	Received: 29Apr2022	


Mycotoxins - Colorado Compliance

Test ID: T000204012
 Methods: TM18 (UHPLC-QQQ)
 LCMS/MS: Mycotoxins

	Dynamic Range (ppb)	Result (ppb)	Notes
Ochratoxin A	2.15 - 126.07	ND	N/A
Aflatoxin B1	1.07 - 32.45	ND	
Aflatoxin B2	1.27 - 32.39	ND	
Aflatoxin G1	1.04 - 31.77	ND	
Aflatoxin G2	1.30 - 31.83	ND	
Total Aflatoxins (B1, B2, G1, and G2)		ND	

Final Approval


 Hannah Wright
 03May2022
 01:13:00 PM MDT
 PREPARED BY / DATE



 Sam Smith
 03May2022
 01:22:00 PM MDT
 APPROVED BY / DATE


Heavy Metals - Colorado Compliance

Test ID: T000204010
 Methods: TM19 (ICP-MS): Heavy Metals

	Dynamic Range (ppm)	Result (ppm)	Notes
Arsenic	0.04 - 4.30	ND	
Cadmium	0.04 - 4.16	ND	
Mercury	0.06 - 5.73	ND	
Lead	0.04 - 4.07	ND	

Final Approval


 Kayla Phye
 03May2022
 03:43:00 PM MDT
 PREPARED BY / DATE


 Sam Smith
 03May2022
 03:48:00 PM MDT
 APPROVED BY / DATE

10:1 25mg Orange Mother Liquor

Batch ID or Lot Number: 00625	Test, Test ID and Methods: Various	Matrix: Concentrate	Page 5 of 5
Reported: 29Apr2022	Started: 29Apr2022	Received: 29Apr2022	



<https://results.botanacor.com/api/v1/coas/uuid/d8517af3-cb2a-44be-8e29-8eec89174b82>

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 \times (0.877)) and Total CBD = CBD + (CBDa \times (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 \times (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.

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Cert #4329.02
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10:1 25mg Pineapple Mother Liquor


Batch ID or Lot Number: 00627	Test, Test ID and Methods: Various	Matrix: Concentrate	Page 1 of 4
Reported: 29Apr2022	Started: 29Apr2022	Received: 29Apr2022	

Cannabinoids - Colorado Compliance

Test ID: T000204013
Methods: TM14 (HPLC-DAD): Potency – Standard

Cannabinoid Analysis	LOD (%)	LOQ (%)	Result (%)	Result (mg/g)	Notes
Cannabichromene (CBC)	0.007	0.022	0.119	1.19	
Cannabichromenic Acid (CBCA)	0.007	0.020	ND	ND	
Cannabidiol (CBD)	0.017	0.055	0.949	9.49	
Cannabidiolic Acid (CBDA)	0.018	0.057	ND	ND	
Cannabidivarin (CBDV)	0.004	0.013	0.017	0.17	
Cannabidivarinic Acid (CBDVA)	0.007	0.024	ND	ND	
Cannabigerol (CBG)	0.004	0.012	0.067	0.67	
Cannabigerolic Acid (CBGA)	0.017	0.052	ND	ND	
Cannabinol (CBN)	0.005	0.016	0.023	0.23	
Cannabinolic Acid (CBNA)	0.012	0.036	ND	ND	
Delta 8-Tetrahydrocannabinol (Delta 8-THC)	0.020	0.062	ND	ND	
Delta 9-Tetrahydrocannabinol (Delta 9-THC)	0.019	0.057	0.093	0.93	
Delta 9-Tetrahydrocannabinolic Acid (THCA-A)	0.016	0.050	ND	ND	
Tetrahydrocannabivarin (THCV)	0.004	0.011	ND	ND	
Tetrahydrocannabivarinic Acid (THCVA)	0.014	0.044	ND	ND	
Total Cannabinoids			1.268	12.68	
Total Potential THC			0.093	0.93	
Total Potential CBD			0.949	9.49	

Final Approval


 Sam Smith
 29Apr2022
 02:12:00 PM MDT
 PREPARED BY / DATE


 Jacob Miller
 29Apr2022
 02:15:00 PM MDT
 APPROVED BY / DATE

10:1 25mg Pineapple Mother Liquor

Batch ID or Lot Number: 00627	Test, Test ID and Methods: Various	Matrix: Concentrate	Page 2 of 4
Reported: 29Apr2022	Started: 29Apr2022	Received: 29Apr2022	

**Microbial
Contaminants -
Colorado Compliance**

Test ID: T000204015

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 ApprovalEden Thompson-Wright
02May2022
04:08:00 PM MDT

PREPARED BY / DATE

Brianne Maillot
02May2022
04:58:00 PM MDT

APPROVED BY / DATE

10:1 25mg Pineapple Mother Liquor


Batch ID or Lot Number: 00627	Test, Test ID and Methods: Various	Matrix: Concentrate	Page 3 of 4
Reported: 29Apr2022	Started: 29Apr2022	Received: 29Apr2022	

**Residual Solvents -
Colorado Compliance**

Test ID: T000204017
Methods: TM04 (GC-MS): Residual

Solvents	Dynamic Range (ppm)	Result (ppm)	Notes
Propane	63 - 1264	ND	
Butanes (Isobutane, n-Butane)	127 - 2531	ND	
Methanol	47 - 935	ND	
Pentane	67 - 1338	ND	
Ethanol	73 - 1460	>1460	
Acetone	76 - 1520	ND	
Isopropyl Alcohol	83 - 1659	ND	
Hexane	5 - 90	ND	
Ethyl Acetate	76 - 1526	ND	
Benzene	0.2 - 3.2	ND	
Heptanes	75 - 1493	ND	
Toluene	14 - 282	ND	
Xylenes (m,p,o-Xylenes)	105 - 2091	ND	

Final Approval


 Sam Smith
 02May2022
 04:21:00 PM MDT

PREPARED BY / DATE


 Hannah Wright
 02May2022
 04:23:00 PM MDT

APPROVED BY / DATE

10:1 25mg Pineapple Mother Liquor

Batch ID or Lot Number: 00627	Test, Test ID and Methods: Various	Matrix: Concentrate	Page 4 of 4
Reported: 29Apr2022	Started: 29Apr2022	Received: 29Apr2022	



<https://results.botanacor.com/api/v1/coas/uuid/2e7abc0c-078f-4d04-9a4a-57166fd30cd2>

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Cert #4329.02
2e7abc0c078f4d049a4a57166fd30cd2.1

10:1 25mg Blueberry Lemonade Mother Liquor


Batch ID or Lot Number: 00629	Test, Test ID and Methods: Various	Matrix: Concentrate	Page 1 of 4
Reported: 29Apr2022	Started: 29Apr2022	Received: 29Apr2022	

Cannabinoids - Colorado Compliance

Test ID: T000204020
Methods: TM14 (HPLC-DAD): Potency – Standard

Cannabinoid Analysis	LOD (%)	LOQ (%)	Result (%)	Result (mg/g)	Notes
Cannabichromene (CBC)	0.008	0.024	0.133	1.33	
Cannabichromenic Acid (CBCA)	0.007	0.022	ND	ND	
Cannabidiol (CBD)	0.019	0.059	1.059	10.59	
Cannabidiolic Acid (CBDA)	0.019	0.061	ND	ND	
Cannabidivarin (CBDV)	0.004	0.014	0.020	0.20	
Cannabidivarinic Acid (CBDVA)	0.008	0.025	ND	ND	
Cannabigerol (CBG)	0.004	0.013	0.074	0.74	
Cannabigerolic Acid (CBGA)	0.018	0.056	ND	ND	
Cannabinol (CBN)	0.006	0.018	0.026	0.26	
Cannabinolic Acid (CBNA)	0.013	0.038	ND	ND	
Delta 8-Tetrahydrocannabinol (Delta 8-THC)	0.022	0.067	ND	ND	
Delta 9-Tetrahydrocannabinol (Delta 9-THC)	0.020	0.061	0.105	1.05	
Delta 9-Tetrahydrocannabinolic Acid (THCA-A)	0.018	0.054	ND	ND	
Tetrahydrocannabivarin (THCV)	0.004	0.012	ND	ND	
Tetrahydrocannabivarinic Acid (THCVA)	0.016	0.048	ND	ND	
Total Cannabinoids			1.417	14.17	
Total Potential THC			0.105	1.05	
Total Potential CBD			1.059	10.59	

Final Approval


 Sam Smith
 29Apr2022
 02:12:00 PM MDT
 PREPARED BY / DATE


 Jacob Miller
 29Apr2022
 02:15:00 PM MDT
 APPROVED BY / DATE

10:1 25mg Blueberry Lemonade Mother Liquor


Batch ID or Lot Number: 00629	Test, Test ID and Methods: Various	Matrix: Concentrate	Page 2 of 4
Reported: 29Apr2022	Started: 29Apr2022	Received: 29Apr2022	

**Residual Solvents -
Colorado Compliance**

Test ID: T000204024

Methods: TM04 (GC-MS): Residual

Solvents	Dynamic Range (ppm)	Result (ppm)	Notes
Propane	67 - 1334	ND	
Butanes (Isobutane, n-Butane)	134 - 2672	ND	
Methanol	49 - 987	ND	
Pentane	71 - 1413	ND	
Ethanol	77 - 1542	>1542	
Acetone	80 - 1605	ND	
Isopropyl Alcohol	88 - 1751	ND	
Hexane	5 - 95	ND	
Ethyl Acetate	81 - 1611	ND	
Benzene	0.2 - 3.4	ND	
Heptanes	79 - 1576	ND	
Toluene	15 - 297	ND	
Xylenes (m,p,o-Xylenes)	110 - 2208	ND	

Final Approval

Sam Smith
02May2022
04:21:00 PM MDT

PREPARED BY / DATE



Hannah Wright
02May2022
04:23:00 PM MDT

APPROVED BY / DATE

10:1 25mg Blueberry Lemonade Mother Liquor

Batch ID or Lot Number: 00629	Test, Test ID and Methods: Various	Matrix: Concentrate	Page 3 of 4
Reported: 29Apr2022	Started: 29Apr2022	Received: 29Apr2022	

Microbial Contaminants - Colorado Compliance

Test ID: T000204022
 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
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	

Final Approval

 Eden Thompson-Wright 02May2022 04:08:00 PM MDT	 Brianne Maillot 02May2022 04:58:00 PM MDT
PREPARED BY / DATE	APPROVED BY / DATE

Mycotoxins - Colorado Compliance

Test ID: T000204025
 Methods: TM18 (UHPLC-QQQ)
 LCMS/MS: Mycotoxins

	Dynamic Range (ppb)	Result (ppb)	Notes
Ochratoxin A	2.16 - 126.75	ND	N/A
Aflatoxin B1	1.08 - 32.63	ND	
Aflatoxin B2	1.28 - 32.56	ND	
Aflatoxin G1	1.05 - 31.94	ND	
Aflatoxin G2	1.31 - 32.01	ND	
Total Aflatoxins (B1, B2, G1, and G2)		ND	

Final Approval

 Hannah Wright 03May2022 01:13:00 PM MDT	 Sam Smith 03May2022 01:22:00 PM MDT
PREPARED BY / DATE	APPROVED BY / DATE

10:1 25mg Blueberry Lemonade Mother Liquor

Batch ID or Lot Number: 00629	Test, Test ID and Methods: Various	Matrix: Concentrate	Page 4 of 4
Reported: 29Apr2022	Started: 29Apr2022	Received: 29Apr2022	

**Heavy Metals -
Colorado Compliance**

Test ID: T000204023

Methods: TM19 (ICP-MS): Heavy

Metals	Dynamic Range (ppm)	Result (ppm)	Notes
Arsenic	0.04 - 4.30	ND	
Cadmium	0.04 - 4.16	ND	
Mercury	0.06 - 5.73	ND	
Lead	0.04 - 4.07	ND	

Final ApprovalKayla Phye
03May2022
03:43:00 PM MDT

PREPARED BY / DATE

Sam Smith
03May2022
03:48:00 PM MDT

APPROVED BY / DATE

<https://results.botanacor.com/api/v1/coas/uuid/bb6cbcfa-1df6-41fd-9da3-152dbfe43110>**Definitions**

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Cert #4329.02
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