



CERTIFICATE OF ANALYSIS

PRODUCT NAME: Cherry Limeade Gummies
PRODUCT STRENGTH: 25mg CBD + 5mg THC / gummy
BATCH: 462: 24D
BEST BY DATE: HEMP 7/4/24
EXTRACT LOT: 3552EN6366

Physical Attributes

Test	Method	Specification	Results
Color	Joy Internal	Red	PASS
Odor	Joy Internal	Sweet Cherry	PASS
Appearance	Joy Internal	Sugar Coated	PASS
Primary Package Eval.	Joy Internal	Container clean and free of filth. Container caps tight and seals intact	PASS
Secondary Package Eval.	Joy 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	*NLT 25mg / gummy	25mg	PASS
Potency - D9-THC	HPLC-UV DAD	LOQ: <0.03% (full spectrum)	5mg	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 gram	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 Panel	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† Aflatoxin B1 < 5 ppb Ochratoxin < 5 ppb	Below LOQ	PASS
Residual Solvents	GC-HS-MSD	LOQ: Complies with CDPHE 6 CCR 1010-21 Industrial Hemp Extract	Below LOQ	PASS

* *Level of Quantitation, † Parts Per Million
† Part Per Billion CFU/g=Colony Forming Units per Gram
* Nothing Less Than Manufacture*
10²=100 CFU
10³=1,000 CFU

Quality Certified

Name
Title

8/12/24

Date

2519 S. Shields St. #1042, Fort Collins, CO 80526
Tel: (833) 569-7223 www.joyorganics.com

FO-106 Certificate of Analysis Rev.
1.1 - Effective Date: 6.28.2022

Cherry Limeade Gummy- 5mg THC : 25mg THC

Batch ID or Lot Number: 240802B	Test, Test ID and Methods: Various	Matrix: Finished Product	Page 2 of 5
Reported: 29May2024	Started: 28May2024	Received: 24May2024	

**Cannabinoids - Colorado
Compliance**

Test ID: T000282072

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

Cannabinoid Analysis	LOD (%)	LOQ (%)	Result (%)	Result (mg/g)	Notes
Cannabichromene (CBC)	0.007	0.025	ND	ND	
Cannabichromenic Acid (CBCA)	0.006	0.023	ND	ND	
Cannabidiol (CBD)	0.022	0.064	0.639	6.39	
Cannabidiolic Acid (CBDA)	0.023	0.066	ND	ND	
Cannabidivarin (CBDV)	0.005	0.015	ND	ND	
Cannabidivarinic Acid (CBDVA)	0.010	0.028	ND	ND	
Cannabigerol (CBG)	0.004	0.014	<LOQ	<LOQ	
Cannabigerolic Acid (CBGA)	0.016	0.058	ND	ND	
Cannabinol (CBN)	0.005	0.018	ND	ND	
Cannabinolic Acid (CBNA)	0.011	0.040	ND	ND	
Delta 8-Tetrahydrocannabinol (Delta 8-THC)	0.019	0.070	ND	ND	
Delta 9-Tetrahydrocannabinol (Delta 9-THC)	0.017	0.063	0.132	1.32	
Delta 9-Tetrahydrocannabinolic Acid (THCA-A)	0.015	0.056	ND	ND	
Tetrahydrocannabivarin (THCV)	0.004	0.013	ND	ND	
Tetrahydrocannabivarinic Acid (THCVA)	0.014	0.049	ND	ND	
Total Cannabinoids			0.771	7.71	
Total Potential THC			0.132	1.32	
Total Potential CBD			0.639	6.39	

Final Approval



Karen Winternheimer
30May2024
09:40:00 AM MDT

PREPARED BY / DATE



Sam Smith
30May2024
09:42:00 AM MDT

APPROVED BY / DATE

Cherry Limeade Gummy - 5mg THC : 25mg THC

Batch ID or Lot Number: 240802B	Test, Test ID and Methods: Various	Matrix: Finished Product	Page 3 of 5
Reported: 29May2024	Started: 28May2024	Received: 24May2024	



Pesticides

Test ID: T000282073

Methods: TM17

(LC-QQ LC MS/MS)	Dynamic Range (ppb)	Result (ppb)		Dynamic Range (ppb)	Result (ppb)	
Abamectin	335 - 2747	ND		Malathion	301 - 2658	ND
Acephate	39 - 2787	ND		Metalaxyl	43 - 2656	ND
Acetamiprid	42 - 2728	ND		Methiocarb	46 - 2720	ND
Azoxystrobin	44 - 2644	ND		Methomyl	41 - 2795	ND
Bifenazate	39 - 2652	ND		MGK 264 1	164 - 1645	ND
Boscalid	48 - 2688	ND		MGK 264 2	107 - 1108	ND
Carbaryl	39 - 2722	ND		Myclobutanil	29 - 2751	ND
Carbofuran	41 - 2702	ND		Naled	43 - 2697	ND
Chlorantraniliprole	43 - 2726	ND		Oxamyl	42 - 2781	ND
Chlorpyrifos	41 - 2744	ND		Paclobutrazol	44 - 2676	ND
Clofentezine	274 - 2718	ND		Permethrin	280 - 2747	ND
Diazinon	315 - 2655	ND		Phosmet	43 - 2529	ND
Dichlorvos	289 - 2749	ND		Prophos	303 - 2722	ND
Dimethoate	40 - 2726	ND		Propoxur	41 - 2702	ND
E-Fenpyroximate	268 - 2728	ND		Pyridaben	292 - 2694	ND
Etofenprox	43 - 2722	ND		Spinosad A	32 - 2078	ND
Etoxazole	293 - 2624	ND		Spinosad D	67 - 655	ND
Fenoxycarb	44 - 2638	ND		Spiromesifen	274 - 2706	ND
Fipronil	51 - 2669	ND		Spirotetramat	279 - 2682	ND
Flonicamid	49 - 2814	ND		Spiroxamine 1	16 - 1028	ND
Fludioxonil	306 - 2698	ND		Spiroxamine 2	25 - 1594	ND
Hexythiazox	42 - 2724	ND		Tebuconazole	300 - 2657	ND
Imazalil	276 - 2681	ND		Thiacloprid	44 - 2768	ND
Imidacloprid	36 - 2804	ND		Thiamethoxam	40 - 2774	ND
Kresoxim-methyl	46 - 2678	ND		Trifloxystrobin	42 - 2718	ND

Final Approval

	Karen Winterheimer 30May2024 11:26:00 AM MDT		Sam Smith 30May2024 11:29:00 AM MDT
PREPARED BY / DATE		APPROVED BY / DATE	

Cherry Limeade Gummy- 5mg THC : 25mg THC

Batch ID or Lot Number: 240802B	Test, Test ID and Methods: Various	Matrix: Finished Product	Page 4 of 5
Reported: 29May2024	Started: 28May2024	Received: 24May2024	

Mycotoxins - Colorado Compliance

Test ID: T000282077

Methods: TM18 (UHPLC-QQQ)

LCMS/MS): Mycotoxins

	Dynamic Range (ppb)	Result (ppb)	Notes
Ochratoxin A	2.71 - 127.24	ND	N/A
Aflatoxin B1	0.90 - 32.00	ND	
Aflatoxin B2	0.97 - 32.10	ND	
Aflatoxin G1	1.06 - 32.16	ND	
Aflatoxin G2	1.00 - 32.07	ND	
Total Aflatoxins (B1, B2, G1, and G2)		ND	

Final Approval



Karen Winternheimer
31May2024
07:59:00 AM MDT

PREPARED BY / DATE



Sam Smith
31May2024
08:09:00 AM MDT

APPROVED BY / DATE

Heavy Metals - Colorado Compliance

Test ID: T000282075

Methods: TM19 (ICP-MS): Heavy

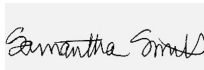
Metals	Dynamic Range (ppm)	Result (ppm)	Notes
Arsenic	0.05 - 4.77	ND	
Cadmium	0.05 - 4.88	ND	
Mercury	0.05 - 4.63	ND	
Lead	0.05 - 4.68	ND	

Final Approval



Karen Winternheimer
31May2024
01:01:00 PM MDT

PREPARED BY / DATE



Sam Smith
31May2024
01:03:00 PM MDT

APPROVED BY / DATE

ANALYZED BY:

Anresco Laboratories
1375 Van Dyke Avenue,
San Francisco, CA 94124
C8-0000052-LIC

SAMPLE INFORMATION

Sample No.: 240802B
Product Name: Cherry Limeade Gummy-
5mg THC : 25mg THC

Lot #: 240802B

Date Collected: 06/03/2024
Date Received: 06/03/2024
Date Reported: 06/05/2024

TEST SUMMARY

Residual Solvent Screen:  Pass

Residual Solvent Screen Pass

06/05/2024

Method: MF-CHEM-32

Instrument: Gas Chromatography Mass Spectrometry (GC/MS)

Analyte	LOD/LOQ (ppm)	Findings (ppm)	Limit (ppm)	Status
1,2-Dichloroethane	0.5/0.5	ND	1	Pass
Acetone	57/200	ND	5000	Pass
Acetonitrile	56/200	ND	410	Pass
Benzene	0.5/0.5	ND	1	Pass
n-Butane	45/200	ND	5000	Pass
Chloroform	0.5/0.5	ND	1	Pass
Ethanol	37/200	929.00	5000	Pass
Ethyl acetate	38/200	ND	5000	Pass
Ethyl ether	37/200	ND	5000	Pass
Ethylene oxide	0.1/0.5	ND	1	Pass
n-Heptane	135/200	ND	5000	Pass
n-Hexane	49/200	ND	290	Pass
Isopropyl alcohol	57/200	ND	5000	Pass
Methanol	37/200	ND	3000	Pass
Methylene chloride	0.1/0.5	ND	1	Pass
n-Pentane	37/200	ND	5000	Pass
Propane	72/200	ND	5000	Pass
Toluene	49/200	ND	890	Pass
Total xylenes (ortho-, meta-, para-)	58/200	ND	2170	Pass
Trichloroethylene	0.5/0.5	ND	1	Pass

ND = None Detected
LOD = Limit of Detection
LOQ = Limit of Quantitation

Reported by



Vu Lam
Lab Co Director



Scan to verify

Cherry Limeade Gummy- 5mg THC : 25mg THC

Batch ID or Lot Number: 240802B	Test, Test ID and Methods: Various	Matrix: Finished Product	Page 5 of 5
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Microbial Contaminants - Colorado Compliance

Test ID: T000282074

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	<LLOQ	
Total Coliforms*	TM27: Culture Plating	10 ¹ CFU/g	1.0x10 ² - 1.5x10 ⁴	None Detected	

Final Approval

 Brianne Maillot
31May2024
01:46:00 PM MDT

PREPARED BY / DATE

 Brett Hudson
31May2024
05:15:00 PM MDT

APPROVED BY / DATE



<https://results.botanacor.com/api/v1/coas/uuid/fc28aa0c-e17c-4627-b3c4-c21f2b564435>

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](#).



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