CERTIFICATE OF ANALYSIS

PRODUCT NAME: Organic Strawberry Lemonade Gummies - Kosher Certified
PRODUCT STRENGTH: 10mg CBD / gummy
BATCH: 762
BEST BY DATE: 8/22/2024

Physical Atttributes

Test	Method	Specification	Results
Color	Internal	Medium Pink	PASS
Odor	Internal	Sweet, strawberry, lemon	PASS
Appearance	Internal	Medium pink gummies with sugar coating in child proof container	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	*NLT 10mg gummy	**12.27mg**	PASS
Potency - D9-THC	HPLC-UV DAD	LOQ: <0.01% (broad spectrum)	**ND**	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† Afltoxin B1 < 5 ppb Ochratoxin < 5ppb	**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
10^2=100 CFU
10^3=1,000 CFU

Quality Certified — Name — 9/16/22 — Date

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Official Compliance: Colorado

CERTIFICATE OF ANALYSIS

OGUMSL10 - Organic 10mg Strawberry Lemonade Gummy

Batch ID or Lot Number:	Test:	Reported:	USDA License:
OGUMSL10 - 00762	**Potency**	**26Aug2022**	N/A
Matrix:	Test ID:	Started:	Sampler ID:
Concentrate	T000219524	26Aug2022	N/A
	Method(s): TM14 (HPLC-DAD): Potency – Standard Cannabinoid Analysis	Received: 26Aug2022	Status: Active

Cannabinoids

	LOD (%)	**LOQ** (%)	**Result** (%)	**Result** (mg/g)	**Notes**
Cannabichromene (CBC)	0.007	0.021	ND	ND	
Cannabichromenic Acid (CBCA)	0.007	0.019	ND	ND	
Cannabidiol (CBD)	0.016	0.053	0.372	3.72	
Cannabidiolic Acid (CBDA)	0.016	0.054	ND	ND	
Cannabidivarin (CBDV)	0.004	0.012	ND	ND	
Cannabidivarinic Acid (CBDVA)	0.007	0.023	ND	ND	
Cannabigerol (CBG)	0.004	0.012	0.023	0.23	
Cannabigerolic Acid (CBGA)	0.017	0.050	ND	ND	
Cannabinol (CBN)	0.005	0.015	ND	ND	
Cannabinolic Acid (CBNA)	0.012	0.034	ND	ND	
Delta 8-Tetrahydrocannabinol (Delta 8-THC)	0.020	0.059	ND	ND	
Delta 9-Tetrahydrocannabinol (Delta 9-THC)	0.018	0.054	ND	ND	
Delta 9-Tetrahydrocannabinolic Acid (THCA-A)	0.016	0.047	ND	ND	
Tetrahydrocannabivarin (THCV)	0.004	0.011	ND	ND	
Tetrahydrocannabivarinic Acid (THCVA)	0.014	0.042	ND	ND	
Total Cannabinoids			**0.395**	**3.95**	
Total Potential THC			ND	ND	
Total Potential CBD			0.372	3.72	

Final Approval

Jacob Miller
26Aug2022
04:13:00 PM MDT

PREPARED BY / DATE

Sam Smith
26Aug2022
04:18:00 PM MDT

APPROVED BY / DATE

https://results.botanacor.com/api/v1/coas/uuid/923fdaf1-c974-4da2-b021-5c9fa375236f

Definitions
% = % (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)).

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Official Compliance: Colorado
CERTIFICATE OF ANALYSIS

OGUMSL10 - Organic 10mg Strawberry Lemonade Gummy

Batch ID or Lot Number:	Test:	Reported:
OGUMSL10 - 00762	**Microbial Contaminants**	**8/29/22**

Matrix:	Test ID:	Started:	USDA License:
Finished Product	T000219526	8/26/22	N/A

Status:	Methods:	Received:	Sampler ID:
Active	TM25 (qPCR) TM24, TM26, TM27(Culture Plating): Microbial	08/26/2022 @ 08:29 AM	N/A

MICROBIAL CONTAMINANTS DETERMINATION

Contaminant	Method	LOD	QUANTITATION RANGE	Result
Total Aerobic Count*	TM-26, Culture Plating	10^2 CFU/g	2.0x10^3 - 3.0x10^5 CFU/g	None Detected
Total Coliforms*	TM-27, Culture Plating	10^1 CFU/g	1.0x10^2 - 1.5x10^4 CFU/g	None Detected
Total Yeast and Mold*	TM-24, Culture Plating	10^1 CFU/g	2.0x10^2 - 3.0x10^4 CFU/g	None Detected
STEC	TM-25, PCR	10^0 CFU/25 g	N/A	Absent
Salmonella	TM-25, PCR	10^0 CFU/25 g	N/A	Absent

Notes

Free from visual mold, mildew, and foreign matter

Eden Thompson-Wright
8/29/2022
1:51:00 PM
PREPARED BY / DATE

Sarah Henning
8/29/2022
3:15:00 PM
APPROVED BY / DATE

Definitions

LOD = Limit of Detection | LLOQ = Lower Limit of Quantitation | ULOQ = Upper Limit of Quantitation
CFU/g = Colony Forming Units per Gram | STEC = Shiga Toxin-Producing *E. coli*
* 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

CDPHE Certified

Certificate #4329.02

OGUMSL10 - Organic 10mg Strawberry Lemonade Gummy

Batch ID or Lot Number:	Test, Test ID and Methods:	Matrix:	Page 3 of 5
OGUMSL10 - 00762	Various	Concentrate	
Reported:	**Started:**	**Received:**	
26Aug2022	26Aug2022	26Aug2022	

Mycotoxins - Colorado Compliance

Test ID: T000219529
Methods: TM18 (UHPLC-QQQ LCMS/MS): Mycotoxins

	Dynamic Range (ppb)	**Result** (ppb)	**Notes**
Ochratoxin A	1.74 - 106.58	ND	N/A
Aflatoxin B1	0.86 - 26.28	ND	
Aflatoxin B2	0.78 - 26.48	ND	
Aflatoxin G1	0.83 - 26.25	ND	
Aflatoxin G2	0.93 - 26.51	ND	
Total Aflatoxins (B1, B2, G1, and G2)		ND	

Final Approval

Jacob Miller
30Aug2022
10:11:00 AM MDT
PREPARED BY / DATE

Sam Smith
30Aug2022
10:21:00 AM MDT
APPROVED BY / DATE

sc labs™

Hemp Quality Assurance Testing
CERTIFICATE OF ANALYSIS
BCA-000397-220308 | DATE ISSUED 06/17/2022

Residual Solvents Analysis
Continued

RESIDUAL SOLVENTS TEST RESULTS - 03/14/2022 *continued* **DETECTED**

COMPOUND	LOD/LOQ (µg/g)	MEASUREMENT UNCERTAINTY (µg/g)	RESULT (µg/g)
Ethylene Oxide	*0.3 / 0.8*	*N/A*	ND
Ethyl Acetate	*20 / 60*	*N/A*	ND
Chloroform	*0.1 / 0.2*	*N/A*	ND
Dichloromethane (Methylene Chloride)	*0.3 / 0.9*	*N/A*	ND
Trichloroethylene	*0.1 / 0.3*	*N/A*	ND
1,2-Dichloroethane	*0.05 / 0.1*	*N/A*	ND
Acetonitrile	*2 / 7*	*N/A*	ND

OGUMSL10 - Organic 10mg Strawberry Lemonade Gummy

Batch ID or Lot Number:	Test, Test ID and Methods:	Matrix:	Page 4 of 5
OGUMSL10 - 00762	Various	Concentrate	
Reported:	Started:	Received:	
26Aug2022	26Aug2022	26Aug2022	

Pesticides

Test ID: T000219525
Methods: TM17

(LC-QQ LC MS/MS)	**Dynamic Range** (ppb)	**Result** (ppb)		**Dynamic Range** (ppb)	**Result** (ppb)
Abamectin	336 - 2764	ND	Malathion	286 - 2727	ND
Acephate	38 - 2825	ND	Metalaxyl	44 - 2773	ND
Acetamiprid	40 - 2748	ND	Methiocarb	43 - 2781	ND
Azoxystrobin	44 - 2772	ND	Methomyl	41 - 2781	ND
Bifenazate	39 - 2738	ND	MGK 264 1	169 - 1643	ND
Boscalid	41 - 2797	ND	MGK 264 2	101 - 1157	ND
Carbaryl	40 - 2768	ND	Myclobutanil	48 - 2791	ND
Carbofuran	40 - 2730	ND	Naled	48 - 2779	ND
Chlorantraniliprole	40 - 2745	ND	Oxamyl	42 - 2787	ND
Chlorpyrifos	39 - 2718	ND	Paclobutrazol	42 - 2723	ND
Clofentezine	270 - 2766	ND	Permethrin	289 - 2741	ND
Diazinon	280 - 2765	ND	Phosmet	41 - 2743	ND
Dichlorvos	252 - 2767	ND	Prophos	282 - 2763	ND
Dimethoate	42 - 2738	ND	Propoxur	42 - 2745	ND
E-Fenpyroximate	296 - 2734	ND	Pyridaben	295 - 2753	ND
Etofenprox	42 - 2689	ND	Spinosad A	35 - 2247	ND
Etoxazole	299 - 2720	ND	Spinosad D	48 - 498	ND
Fenoxycarb	41 - 2752	ND	Spiromesifen	283 - 2740	ND
Fipronil	20 - 2847	ND	Spirotetramat	276 - 2798	ND
Flonicamid	50 - 2754	ND	Spiroxamine 1	18 - 1189	ND
Fludioxonil	273 - 2782	ND	Spiroxamine 2	24 - 1591	ND
Hexythiazox	42 - 2699	ND	Tebuconazole	288 - 2837	ND
Imazalil	262 - 2789	ND	Thiacloprid	42 - 2744	ND
Imidacloprid	40 - 2747	ND	Thiamethoxam	40 - 2776	ND
Kresoxim-methyl	42 - 2813	ND	Trifloxystrobin	44 - 2745	ND

Final Approval

Daniel Weidensaul
01Sep2022
01:40:00 PM MDT
PREPARED BY / DATE

Karen Winternheimer
01Sep2022
01:46:00 PM MDT
APPROVED BY / DATE

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CERTIFICATE OF ANALYSIS

OGUMSL10 - Organic 10mg Strawberry Lemonade Gummy

Batch ID or Lot Number:	Test, Test ID and Methods:	Matrix:	Page 5 of 5
OGUMSL10 - 00762	Various	Concentrate	
Reported:	Started:	Received:	
26Aug2022	26Aug2022	26Aug2022	

Heavy Metals - Colorado Compliance

Test ID: T000219527
Methods: TM19 (ICP-MS): Heavy Metals

	Dynamic Range (ppm)	**Result** (ppm)	**Notes**
Arsenic	0.05 - 4.72	ND	
Cadmium	0.05 - 4.81	ND	
Mercury	0.04 - 4.45	ND	
Lead	0.05 - 5.01	ND	

Final Approval

Sam Smith
29Aug2022
05:15:00 PM MDT
PREPARED BY / DATE

Daniel Weidensaul
30Aug2022
06:03:00 PM MDT
APPROVED BY / DATE

https://results.botanacor.com/api/v1/coas/uuid/5c8991e2-737f-46ef-bd93-c1bff9075294

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: 10^2 = 100 CFU, 10^3 = 1,000 CFU, 10^4 = 10,000 CFU, 10^5 = 100,000 CFU.

Cert #4329.02
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