

CERTIFICATE OF ANALYSIS

PRODUCT NAME: Joy Organics Strawberry Lemonade Gummies - Kosher Certified

PRODUCT STRENGTH: 10 mg CBD / gummy

BATCH: J10SL02 **BEST BY DATE: HEMP** 08/2023

CO325-003 **EXTRACT LOT:**

Click on the links to view third-party reports

Physical Atttributes

Test	Method	Specification	Results
Color	Joy Internal	Medium Pink	PASS
Odor	Joy Internal	Sweet, strawberry, lemon	PASS
Appearance	Joy Internal	Medium pink gummies with sugar coating in child proof container	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 10 mg / gummy	10.16 mg	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 in effect during MFG*	Below LOQ	PASS

^{* *}Level of Quantitation, † Parts Per Million † Part Per Billion CFU/g=Colony Forming Units per Gram * Nothing Less Than Manufacture* 10^2=100 CFU 10^3=1,000 CFU Quality

Quality Certified

Kayla Kolber

08/18/2021

Date



certificate ID

1CX18

C0325-003

sample ID 26419

7USC1639 Certificate of Analysis

THC total ND

cannabinoids

87.39%

per gram

CBD total 82.44%

MSP-7.5.1.3

terpenes

This Product Has Been Tested and Complies with 7USC1639o(1)

MSP-7.5.1.6

Stillwater Laboratories

MSP-7.5.1.6

analysis date 3/26/2021 3:55:32 PM

test tag 10243.3.4

order 10243

sample wgt

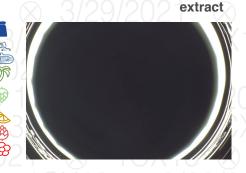
Inspection MSP-7.5.1.2

DESCRIPTION: Concentrate sample received in a client-labeled bottle, by commercial courier. Labeled 26419 and sample tag 10243.3.4.

caryophyllene humulene terpinolene beta pinene alpha pinene limonene

> myrcene linalool

Terpenes



Potency per gram

error LOQ (95%Cl k=2) MSP-7.5.1.4 LOD ND tetrahydrocannabolic acid (THCa) 0.001 | 0.004 | ±0.004% 0.001 | 0.004 | ±0.004% Δ9-tetrahydrocannabinol (Δ9 THC) ND Δ8-tetrahydrocannabinol (Δ8 THC) ND 0.002 | 0.005 | ±0.005% tetrahydrocannabivarin (THCv) ND 0.001 | 0.004 | ±0.004% 0.001 | 0.004 | ±0.025% cannabidiolic acid (CBDa) 0.91% cannabidiol (CBD) 81.53% 0.001 | 0.004 | ±1.899% 0.19% 0.001 | 0.004 | ±0.009% cannabidivarin (CBDv) ND cannabigerolic acid (CBGa) 0.001 | 0.004 | ±0.004% cannabigerol (CBG) 4.75% <0.001 | 0.001 | ±0.112% cannabinol (CBN) ND 0.001 | 0.002 | ±0.002% cannabichromene (CBC) ND 0.001 | 0.004 | ±0.004%

‡ = decarbed NT = not tested NL = no limit, ND = not detected, LOD = detection limit , LOQ = quantitation limit

Microbial M	ISP-7.5.1.1	0 limit	Metals M	SP-7.5.1.1	1 limit
E.coli Salmonella sp. molds	NA NA NA	0CFU 0CFU 10000CFU	Arsenic Cadmium Lead	NA NA NA	200 ppb 200 ppb 500 ppb
Ochratoxin A Aflatoxin		20 ppb 20 ppb	Mercury	NA	300 ppb
Solvents	SP-7.5.1.7	limit	Pesticides	ISP-7.5.1.8	3 limit
Acetone	PASS	3100 ppm	Permethrin	PASS	20.00 ppm
Acetonitrile	PASS	6 ppm	Phosmet	PASS	0.20 ppm
Benzene	PASS	0 ppm	Piperonylbutoxide	PASS	8.00 ppm
Butane	PASS	5000 ppm	Prallethrin	PASS	0.40 ppm
Chloroform	PASS	0 ppm	Propiconazole	PASS	20.00 ppm
Cyclohexane	PASS	3880 ppm	Propoxur	PASS	0.00 ppm
Ethanol	PASS	5000 ppm	Pyrethrin	PASS	1.00 ppm
Heptane	PASS	5000 ppm	Pyridaben	PASS	3.00 ppm
Hexane	PASS	70 ppm	Spinetoram	PASS	3.00 ppm
Isopropyl alcohol	PASS	320 ppm	Spinosad	PASS	3.00 ppm
Methanol	PASS	400 ppm	Spiromesifen	PASS	12.00 ppm
Pentane	PASS	5000 ppm	Spirotetramat	PASS	13.00 ppm
Propane	PASS	5000 ppm	Spiroxamine	PASS	0.00 ppm
Toluene	PASS	30 ppm	Tebuconazole	PASS	2.00 ppm
Xylenes	PASS	10 ppm	Thiacloprid	PASS	0.10 ppm
1001000			Thiamethoxam	PASS	4.50 ppm
			Trifloxystrobin	PASS	30.00 ppm

on limit			
Pesticides	MSP-7.5.1.8	limit	Pe
Abamectir	n PASS	0.30 ppm	
Acephate	PASS	5.00 ppm	
Acequinocy	I PASS	4.00 ppm	
Acetamiprio	PASS	5.00 ppm	
Aldicart	PASS	0.00 ppm	
Azoxystrobir	1 PASS	40.00	
Bifenazate	PASS	5.00 ppm	
Bifenthrin	PASS	0.50 ppm	
Boscalio	PASS	10.00	
Carbary	I PASS	0.50 ppm	
Carbofurar	PASS	0.00 ppm	
Chloantraniliprole	PASS	40.00	
Chlorfenapy	r PASS	0.00 ppm	
Chlorpyrifos	s PASS	0.00 ppm	
Clofentezine	PASS	0.50 ppm	
Coumaphos	s PASS	0.00 ppm	
Cyfluthrir		1.00 ppm	
Cypermethrir	PASS	1.00 ppm	
Daminozide	PASS	0.00 ppm	
Dichlorvos	PASS	0.00 ppm	
Diazinor	PASS	0.20 ppm	
Dimethoate	PASS	0.00 ppm	
Etoxazole		1.50 ppm	
Fenoxycark	PASS	0.00 ppm	
Fenpyroximate	PASS	2.00 ppm	

esticides 0.00 ppm Fipronil PASS Flonicamid **PASS** 2.00 ppm **PASS** 30.00 Fludioxonil 2:00 ppm **PASS** Hexythiazox Imazalil **PASS** 0.00 ppm Imidacloprid **PASS** 3.00 ppm 5.00 ppm **PASS** Malathion PASS 15.00 Metalaxyl mqq 66.6 Methiocarb **PASS** 0.10 ppm **PASS** Methomyl Methyl parathion **PASS** 0.00 ppm Mevinphos **PASS** 0.00 ppm 9.00 ppm **PASS** Myclobutanil Naled **PASS** 0.50 ppm 0.20 ppm Oxamyl **PASS PASS** Paclobutrazol 0.00 ppm Permethrin PASS 20.00

INSTRUMENTS potency: HPLC (LC2030C-UV) terpenes: GCMS (QP2020/HS20) solvents: GCMS (QP2020/HS20) pesticides: LCMSMS (LC8060) mycotoxins: LCMSMS (LC8060) microbial: qPCR (AriaMx) and plating metals: ICPMS (ICPMS-2030)

SECURITY FEATURE: WATERMARK MUST MATCH CERTIFICATE ID AND ISSUE DATE

Kyle Larson, MSc (Biology) Deputy Director

Stillwater Laboratories Inc. MT License L00001, 7, 8 6073 US93N Suite 5 Olney MT 59927 406-881-2019

3/31/2021 11:07 AM

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Official Compliance: Colorado CERTIFICATE OF ANALYSIS

GUMSL10

Batch ID or Lot Number: Test: Reported: J10SL02 8/17/21 **Potency**

Matrix: Test ID: Started: **USDA License:**

Concentrate T000154928 8/12/21 N/A

Sampler ID: Status: Method: Received:

TM14 (HPLC-DAD): Potency - Broad N/A 08/09/2021 @ 10:18 AM N/A Spectrum Analysis, 0.01% THC

(Colorado Panel)

CANNABINOID PROFILE

Compound	LOD (%)	LOQ (%)	Result (%)	Result (mg/g)	
Delta 9-Tetrahydrocannabinolic acid (THCA-A)	0.003	0.008	ND	ND	No
Delta 9-Tetrahydrocannabinol (Delta 9THC)	0.003	0.009	ND	ND	N/A
Cannabidiolic acid (CBDA)	0.025	0.059	ND	ND	
Cannabidiol (CBD)	0.024	0.058	0.254	2.54	
Delta 8-Tetrahydrocannabinol (Delta 8THC)	0.019	0.061	ND	ND	
Cannabinolic Acid (CBNA)	0.011	0.035	ND	ND	
Cannabinol (CBN)	0.005	0.016	ND	ND	
Cannabigerolic acid (CBGA)	0.016	0.052	ND	ND	
Cannabigerol (CBG)	0.004	0.012	0.015	0.15	
Tetrahydrocannabivarinic Acid (THCVA)	0.013	0.044	ND	ND	
Tetrahydrocannabivarin (THCV)	0.003	0.011	ND	ND	
Cannabidivarinic Acid (CBDVA)	0.010	0.025	ND	ND	
Cannabidivarin (CBDV)	0.006	0.014	ND	ND	
Cannabichromenic Acid (CBCA)	0.006	0.020	ND	ND	
Cannabichromene (CBC)	0.007	0.022	ND	ND	
Total Cannabinoids			0.269	2.69	
Total Potential THC**			ND	ND	
Total Potential CBD**			0.254	2.54	

Daniel Weidensaul 17-Aug-2021 01:50 PM

Taylor Brevik 17-Aug-21 1:56 PM

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Definitions

% = % (w/w) = Percent (Weight of Analyte / Weight of Product)

* Indicates a value below the Limit of Quantitiation (LOQ) and above the Limit of Detection (LOD).

** Total Potential THC/CBD 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)) and

Total CBD = CBD + (CBDa *(0.877))

Total Cannabinoids result reflects the absolute sum of all cannabinoids detected.

ND = None Detected (Defined by Dynamic Range of the method)

Testing results are based solely upon the sample submitted to Botanacor Laboratories, LLC, in the condition it was received. Botanacor Laboratories, LLC 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 Botanacor Laboratories, LLC.









GUMSL10

Batch ID or Lot Number: J10SL02	Test: Pesticides	Reported: 8/16/21		
Matrix:	Test ID:	Started:	USDA License:	
Concentrate	T000154929	8/13/21	N/A	
Status:	Method:	Received:	Sampler ID:	
N/A	TM17(LC-QQQ LC MS/MS):	08/09/2021 @ 10:18 AM	N/A	

PESTICIDE DETERMINATION

Compound	LOQ (ppm)	Result (ppm)	Compound	LOQ (ppm)	Result (ppm)	Compound	LOQ (ppm)	Result (ppm)
Acephate	39	ND	Fenoxycarb	40	ND	Paclobutrazol	47	ND
Acetamiprid	42	ND	Fipronil	50	ND	Permethrin	290	ND
Avermectin	407	ND	Flonicamid	40	ND	Phosmet	44	ND
Azoxystrobin	45	ND	Fludioxonil	327	ND	Prophos	308	ND
Bifenazate	41	ND	Hexythiazox	33	ND	Propoxur	44	ND
Boscalid	45	ND	Imazalil	282	ND	Pyridaben	319	ND
Carbaryl	41	ND	Imidacloprid	41	ND	Spinosad A	36	ND
Carbofuran	44	ND	Kresoxim-methyl	150	ND	Spinosad D	53	ND
Chlorantraniliprole	50	ND	Malathion	300	ND	Spiromesifen	289	ND
Chlorpyrifos	500	ND	Metalaxyl	43	ND	Spirotetramat	283	ND
Clofentezine	273	ND	Methiocarb	43	ND	Spiroxamine 1	19	ND
Diazinon	295	ND	Methomyl	41	ND	Spiroxamine 2	26	ND
Dichlorvos	322	ND	MGK 264 1	167	ND	Tebuconazole	293	ND
Dimethoate	41	ND	MGK 264 2	118	ND	Thiacloprid	43	ND
E-Fenpyroximate	330	ND	Myclobutanil	44	ND	Thiamethoxam	41	ND
Etofenprox	45	ND	Naled	43	ND	Trifloxystrobin	45	ND
Etoxazole	305	ND	Oxamyl	1500	ND			

Toph Buil

Taylor Brevik 8/16/2021 1:51:00 PM

Samantha Smoth

Sam Smith 8/16/2021 2:01:00 PM

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Definitions

LOQ = Limit of Quantification ppb = Parts per Billion

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Certificate #4329.02



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GUMSL10

Batch ID or Lot Number: Reported: Test: J10SL02 **Microbial** 8/13/21

Contaminants

Test ID: Started: **USDA License:** Matrix:

Finished Product T000154930 8/9/21 N/A

Methods: Sampler ID: Status: Received:

TM25 (qPCR) 08/09/2021 @ 10:18 AM N/A N/A

> TM24, TM26, TM27(Culture Plating): Microbial (Colorado Panel)

MICROBIAL CONTAMINANTS DETERMINATION

Contaminant	Method	LOD	LLOQ	ULOQ	Result
Total Aerobic Count*	TM-26, Culture Plating	10^2 CFU/g	10^3 CFU/g	1.5x10^5 CFU/g	None Detected
Total Coliforms*	TM-27, Culture Plating	10^2 CFU/g	10^2 CFU/g	1.5x10^4 CFU/g	None Detected
Total Yeast and Mold*	TM-24, Culture Plating	10^2 CFU/g	10^2 CFU/g	1.5x10^4 CFU/g	None Detected
E. coli (STEC)	TM-25, PCR	1 CFU/25 g	NA	NA	Absent
Salmonella	TM-25, PCR	1 CFU/25 g	NA	NA	Absent

Notes

Free from visual mold, mildew, and foreign matter

Robert Belfon 8/13/2021 12:25:00 PM

Jackson Osaghae-Nosa 8/13/2021 2:24:00 PM

APPROVED BY / DATE PREPARED 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

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GUMSL10

Batch ID or Lot Number: J10SL02	Test: Metals	Reported: 8/13/21	
Matrix: Unit Co	Test ID: T000154931	Started: 8/12/21	USDA License: N/A
Status: N/A	Method: TM19 (ICP-MS): Heavy Metals (Colorado Panel)	Received: 08/09/2021 @ 10:18 AM	Sampler ID: N/A

HEAVY METALS DETERMINATION

Compound	Dynamic Range (ppb)	Result (ppb)	Notes
Arsenic	0.044 - 4.39	ND	
Cadmium	0.048 - 4.78	ND	
Mercury	0.044 - 4.38	ND	
Lead	0.044 - 4.38	ND	

Samantha Smoll

Sam Smith 13-Aug-21 1:11 PM

Danuel Wardonsaul

Daniel Weidensaul 13-Aug-21 1:14 PM

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Definitions

ND = None Detected (Defined by Dynamic Range of the method)



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GUMSL10

Batch ID or Lot Number: J10SL02	Test: Mycotoxins	Reported: 8/17/21	
Matrix: Concentrate	Test ID: T000154933	Started: 8/16/21	USDA License: N/A
Status: N/A	Method: TM18 (UHPLC-QQQ LCMS/MS): Mycotoxins (Colorado Panel)	Received: 08/09/2021 @ 10:18 AM	Sampler ID: N/A

MYCOTOXIN DETERMINATION

Compound	Dynamic Range	e (ppb)	Result (ppb)	N
Ochratoxin A	4.5 - 132.5		ND	N
Aflatoxin B1	1 - 33.3		ND	
Aflatoxin B2	1.1 - 33.5		ND	
Aflatoxin G1	1.1 - 32.8		ND	
Aflatoxin G2	1.2 - 32.3		ND	
Total Aflatoxins (B1, B2, G1, and G2)			ND	

Notes N/A



Sam Smith 17-Aug-21 2:13 PM

Courtny Richals

Courtney Richards 17-Aug-21 6:13 PM

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Definitions

ND = None Detected (Defined by Dynamic Range of the method)

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CDPHE Certified







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GUMSL10

Batch ID or Lot Number: Test: Reported: J10SL02 **Residual Solvents** 8/12/21 Matrix: Test ID: Started: **USDA License:** N/A T000154932 N/A 8/11/21 Methods: Sampler ID: Status: Received: TM04 (GC-MS): Residual Solvents 08/09/2021 @ 10:18 AM N/A N/A (Colorado Panel)

RESIDUAL SOLVENTS DETERMINATION

Solvent	Dynamic Range (ppm)	Result (ppm)	Notes
Propane	92 - 1837	*ND	_
Butanes (Isobutane, n-Butane)	172 - 3449	*ND	
Methanol	64 - 1277	*ND	
Pentane	94 - 1888	*ND	
Ethanol	101 - 2018	>2018	
Acetone	104 - 2077	*ND	
Isopropyl Alcohol	115 - 2293	*ND	
Hexane	6 - 128	*ND	
Ethyl Acetate	105 - 2108	*ND	
Benzene	0 - 4	*ND	
Heptanes	100 - 2004	*ND	
Toluene	19 - 381	*ND	
Xylenes	141 - 2816	*ND	
(m,p,o-Xylenes)			

L Winternheimer

Karen Winternheimer

12-Aug-21 3:07 PM Mygun News

Ryan Weems 12-Aug-21 3:09 PM

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Definitions

* ND = None Detected (Defined by Dynamic Range of the method)

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CDPHE Certified



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