

CERTIFICATE OF ANALYSIS

PRODUCT NAME: Strawberry Lemonade Gummies - Kosher Certified
PRODUCT STRENGTH: 10 mg CBD / gummy
BATCH: J10SL02
BEST BY DATE: 08/2023
HEMP EXTRACT LOT: CO325-003

[*Click on the links to view third-party reports*](#)

Physical Attributes


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† Aflatoxin 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*
 10²=100 CFU
 10³=1,000 CFU

Quality Certified

Kayla Kolber  08/18/2021
 Kayla Kolber Date
 Quality Assurance Technician

5042 Technology Parkway, Fort Collins, CO 80528
 Tel: (833) 569-7223 www.joyorganics.com

FO-106 Certificate of Analysis Rev.
 1.2 - Effective Date: 8/18/2021



C0325-003

7USC1639 Certificate of Analysis

sample ID 26419

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

Stillwater Laboratories

certificate ID 1CX18

total cannabinoids 87.39% per gram

THC total ND CBD total 82.44% terpenes

MSP-7.5.1.3

0.000

extract

order 10243 analysis date 3/26/2021 3:55:32 PM test tag 10243.3.4 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 ocimene beta pinene alpha pinene limonene myrcene linalool



0.000

Potency per gram

MSP-7.5.1.4 LOD LOQ error (95%CI k=2)

Table with 4 columns: Compound, Result, LOD, LOQ, Error. Rows include tetrahydrocannabinolic acid (THCa), Δ9-tetrahydrocannabinol (Δ9 THC), Δ8-tetrahydrocannabinol (Δ8 THC), tetrahydrocannabinavarin (THCv), cannabidiolic acid (CBDa), cannabidiol (CBD), cannabidivarin (CBDv), cannabigerolic acid (CBGa), cannabigerol (CBG), cannabinalol (CBN), and cannabichromene (CBC).

Terpenes

MSP-7.5.1.6

MSP-7.5.1.6

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

Microbial

MSP-7.5.1.10 limit

Metals

MSP-7.5.1.11 limit

Pesticides

MSP-7.5.1.8 limit

Pesticides

MSP-7.5.1.8 limit

Table with 4 columns: Microbial, Metals, Pesticides, Pesticides. Rows include E.coli, Salmonella sp., molds, Ochratoxin A, Aflatoxin, Arsenic, Cadmium, Lead, Mercury, Abamectin, Acephate, Acequinocyl, Acetamiprid, Aldicarb, Azoxystrobin, Bifenazate, Bifenthrin, Boscalid, Carbaryl, Carbofuran, Chloantraniliprole, Chlorfenapyr, Chlorpyrifos, Clofentezine, Coumaphos, Cyfluthrin, Cypermethrin, Daminozide, Dichlorvos, Diazinon, Dimethoate, Etoxazole, Fenoxycarb, Fenpyroximate, Fipronil, Flonicamid, Fludioxonil, Hexythiazox, Imazalil, Imidacloprid, Malathion, Metalaxyl, Methiocarb, Methomyl, Methyl parathion, Mevinphos, Myclobutanil, Naled, Oxamyl, Paclobutrazol, Permethrin.

Solvents

MSP-7.5.1.7 limit

Pesticides

MSP-7.5.1.8 limit

Table with 4 columns: Solvents, Pesticides, Pesticides, Pesticides. Rows include Acetone, Acetonitrile, Benzene, Butane, Chloroform, Cyclohexane, Ethanol, Heptane, Hexane, Isopropyl alcohol, Methanol, Pentane, Propane, Toluene, Xylenes, Permethrin, Phosmet, Piperonylbutoxide, Prallethrin, Propiconazole, Propoxur, Pyrethrin, Pyridaben, Spinetoram, Spinosad, Spiromesifen, Spirotetramat, Spiroxamine, Tebuconazole, Thiachloprid, Thiamethoxam, Trifloxystrobin, Abamectin, Acephate, Acequinocyl, Acetamiprid, Aldicarb, Azoxystrobin, Bifenazate, Bifenthrin, Boscalid, Carbaryl, Carbofuran, Chloantraniliprole, Chlorfenapyr, Chlorpyrifos, Clofentezine, Coumaphos, Cyfluthrin, Cypermethrin, Daminozide, Dichlorvos, Diazinon, Dimethoate, Etoxazole, Fenoxycarb, Fenpyroximate, Fipronil, Flonicamid, Fludioxonil, Hexythiazox, Imazalil, Imidacloprid, Malathion, Metalaxyl, Methiocarb, Methomyl, Methyl parathion, Mevinphos, Myclobutanil, Naled, Oxamyl, Paclobutrazol, Permethrin.

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

Certified by:

[Signature]

Kyle Larson, MSc (Biology) Deputy Director

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

Printed 3/31/2021 11:07 AM

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Certificate #4961.01

https://portal.a2la.org/scopepdf/4961-01.pdf

GUMSL10


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


Matrix: Concentrate Test ID: T000154928 Started: 8/12/21 USDA License: N/A

Status: N/A Method: TM14 (HPLC-DAD): Potency - Broad Spectrum Analysis, 0.01% THC (Colorado Panel) Received: 08/09/2021 @ 10:18 AM Sampler ID: N/A

CANNABINOID PROFILE

Compound	LOD (%)	LOQ (%)	Result (%)	Result (mg/g)	Notes
Delta 9-Tetrahydrocannabinolic acid (THCA-A)	0.003	0.008	ND	ND	N/A
Delta 9-Tetrahydrocannabinol (Delta 9THC)	0.003	0.009	ND	ND	
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

PREPARED BY / DATE

APPROVED BY / DATE

Definitions

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

* Indicates a value below the Limit of Quantitation (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.

$$\text{Total THC} = \text{THC} + (\text{THCa} * (0.877)) \text{ and}$$

$$\text{Total CBD} = \text{CBD} + (\text{CBDA} * (0.877))$$

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.



CDPHE Certified



Certificate #4329.02

GUMSL10

Batch ID or Lot Number: **J10SL02** Test: **Pesticides** Reported: **8/16/21**

Matrix: Concentrate Test ID: T000154929 Started: 8/13/21 USDA License: N/A

Status: N/A Method: TM17(LC-QQQ LC MS/MS): Received: 08/09/2021 @ 10:18 AM Sampler ID: 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			

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

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

PREPARED BY / DATE

APPROVED BY / DATE

Definitions

LOQ = Limit of Quantification
ppb = Parts per Billion

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.




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GUMSL10


Batch ID or Lot Number: J10SL02	Test: Microbial Contaminants	Reported: 8/13/21	
Matrix: Finished Product	Test ID: T000154930	Started: 8/9/21	USDA License: N/A
Status: N/A	Methods: TM25 (qPCR) TM24, TM26, TM27(Culture Plating): Microbial (Colorado Panel)	Received: 08/09/2021 @ 10:18 AM	Sampler ID: N/A

MICROBIAL CONTAMINANTS DETERMINATION

Contaminant	Method	LOD	LLOQ	ULOQ	Result	Notes
Total Aerobic Count*	TM-26, Culture Plating	10 ² CFU/g	10 ³ CFU/g	1.5x10 ⁵ CFU/g	None Detected	Free from visual mold, mildew, and foreign matter
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	


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

PREPARED BY / DATE


 Jackson Osaghae-Nosa
 8/13/2021
 2:24:00 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: 10² = 100 CFU
 10³ = 1,000 CFU
 10⁴ = 10,000 CFU
 10⁵ = 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	


 Sam Smith
 13-Aug-21
 1:11 PM

PREPARED BY / DATE


 Daniel Weidensaul
 13-Aug-21
 1:14 PM

APPROVED BY / DATE

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 (ppb)	Result (ppb)	Notes
Ochratoxin A	4.5 - 132.5	ND	N/A
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	


 Sam Smith
 17-Aug-21
 2:13 PM

PREPARED BY / DATE


 Courtney Richards
 17-Aug-21
 6:13 PM

APPROVED BY / DATE

Definitions

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

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GUMSL10

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

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 (m,p,o-Xylenes)	141 - 2816	*ND	

 Karen Winternheimer
12-Aug-21
3:07 PM

 Ryan Weems
12-Aug-21
3:09 PM

PREPARED BY / DATE

APPROVED BY / DATE

Definitions

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

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