DANU

CERTIFICATE OF ANALYSIS

PRODUCT NAME:	Strawberry Lemonade Gummies - Kosher Certified
PRODUCT STRENGTH:	10 mg CBD / gummy
BATCH:	J10SL03
BEST BY DATE:	08/2023
HEMP EXTRACT LOT:	CO325-003

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	**10.44 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 Certified Kayla Kolber 08/30/2021

Kayla Kolber
Quality Assurance Technician
Date

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

certificate ID
1CX18

total cannabinoids **87.39%** per gram

THC total ND CBD total 82.44% terpenes

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

Stillwater Laboratories

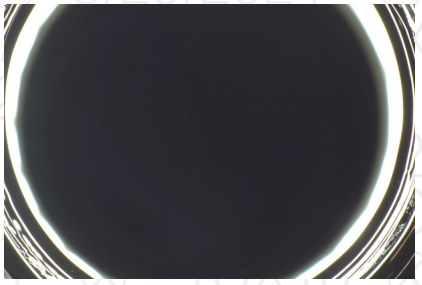
MSP-7.5.1.3

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



Potency per gram MSP-7.5.1.4

		LOD	LOQ	error (95%CI k=2)
tetrahydrocannabolic acid (THCa)	ND	0.001	0.004	±0.004%
Δ9-tetrahydrocannabinol (Δ9 THC)	ND	0.001	0.004	±0.004%
Δ8-tetrahydrocannabinol (Δ8 THC)	ND	0.002	0.005	±0.005%
tetrahydrocannabivarin (THCv)	ND	0.001	0.004	±0.004%
cannabidiolic acid (CBDa)	0.91%	0.001	0.004	±0.025%
cannabidiol (CBD)	81.53%	0.001	0.004	±1.899%
cannabidivarin (CBDv)	0.19%	0.001	0.004	±0.009%
cannabigerolic acid (CBGa)	ND	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%

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
E.coli	NA	0CFU
Salmonella sp.	NA	0CFU
molds	NA	10000CFU
Ochratoxin A	PASS	20 ppb
Aflatoxin	PASS	20 ppb

Metals MSP-7.5.1.11

		limit
Arsenic	NA	200 ppb
Cadmium	NA	200 ppb
Lead	NA	500 ppb
Mercury	NA	300 ppb

Solvents MSP-7.5.1.7

		limit
Acetone	PASS	3100 ppm
Acetonitrile	PASS	6 ppm
Benzene	PASS	0 ppm
Butane	PASS	5000 ppm
Chloroform	PASS	0 ppm
Cyclohexane	PASS	3880 ppm
Ethanol	PASS	5000 ppm
Heptane	PASS	5000 ppm
Hexane	PASS	70 ppm
Isopropyl alcohol	PASS	320 ppm
Methanol	PASS	400 ppm
Pentane	PASS	5000 ppm
Propane	PASS	5000 ppm
Toluene	PASS	30 ppm
Xylenes	PASS	10 ppm

Pesticides MSP-7.5.1.8

		limit
Permethrin	PASS	20.00 ppm
Phosmet	PASS	0.20 ppm
Piperonylbutoxide	PASS	8.00 ppm
Prallethrin	PASS	0.40 ppm
Propiconazole	PASS	20.00 ppm
Propoxur	PASS	0.00 ppm
Pyrethrin	PASS	1.00 ppm
Pyridaben	PASS	3.00 ppm
Spinetoram	PASS	3.00 ppm
Spinosad	PASS	3.00 ppm
Spiromesifen	PASS	12.00 ppm
Spirotetramat	PASS	13.00 ppm
Spiroxamine	PASS	0.00 ppm
Tebuconazole	PASS	2.00 ppm
Thiacloprid	PASS	0.10 ppm
Thiamethoxam	PASS	4.50 ppm
Trifloxystrobin	PASS	30.00 ppm

Pesticides MSP-7.5.1.8

		limit
Abamectin	PASS	0.30 ppm
Acephate	PASS	5.00 ppm
Acequinocyl	PASS	4.00 ppm
Acetamiprid	PASS	5.00 ppm
Aldicarb	PASS	0.00 ppm
Azoxystrobin	PASS	40.00
Bifenazate	PASS	5.00 ppm
Bifenthrin	PASS	0.50 ppm
Boscalid	PASS	10.00
Carbaryl	PASS	0.50 ppm
Carbofuran	PASS	0.00 ppm
Chloantraniliprole	PASS	40.00
Chlorfenapyr	PASS	0.00 ppm
Chlorpyrifos	PASS	0.00 ppm
Clofentezine	PASS	0.50 ppm
Coumaphos	PASS	0.00 ppm
Cyfluthrin	PASS	1.00 ppm
Cypermethrin	PASS	1.00 ppm
Daminozide	PASS	0.00 ppm
Dichlorvos	PASS	0.00 ppm
Diazinon	PASS	0.20 ppm
Dimethoate	PASS	0.00 ppm
Etoxazole	PASS	1.50 ppm
Fenoxycarb	PASS	0.00 ppm
Fenpyroximate	PASS	2.00 ppm

Pesticides MSP-7.5.1.8

		limit
Fipronil	PASS	0.00 ppm
Flonicamid	PASS	2.00 ppm
Fludioxonil	PASS	30.00
Hexythiazox	PASS	2.00 ppm
Imazalil	PASS	0.00 ppm
Imidacloprid	PASS	3.00 ppm
Malathion	PASS	5.00 ppm
Metalaxyl	PASS	15.00
Methiocarb	PASS	0.00 ppm
Methomyl	PASS	0.10 ppm
Methyl parathion	PASS	0.00 ppm
Mevinphos	PASS	0.00 ppm
Myclobutanil	PASS	9.00 ppm
Naled	PASS	0.50 ppm
Oxamyl	PASS	0.20 ppm
Paclobutrazol	PASS	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

Certified by:

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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HEMP INDUSTRIES ASSOCIATION Member

ASA PFC Laboratory

ISO/IEC 17025:2017
ACCREDITED
Certificate #4961.01
https://portal.a2la.org/scopepdf/4961-01.pdf

botanacor

Official Compliance: Colorado
CERTIFICATE OF ANALYSIS

GUMSL10

Batch ID or Lot Number:	Test:	Reported:
J10SL03	**Potency**	**8/26/21**

Matrix:	Test ID:	Started:	USDA License:
Concentrate	T000158048	8/25/21	N/A

Status:	Method:	Received:	Sampler ID:
N/A	TM14 (HPLC-DAD): Potency - Broad Spectrum Analysis, 0.01% THC (Colorado Panel)	08/18/2021 @ 12:35 PM	N/A

CANNABINOID PROFILE

Compound	LOD (%)	LOQ (%)	Result (%)	Result (mg/g)
Delta 9-Tetrahydrocannabinolic acid (THCA-A)	0.002	0.008	ND	ND
Delta 9-Tetrahydrocannabinol (Delta 9THC)	0.003	0.009	ND	ND
Cannabidiolic acid (CBDA)	0.026	0.062	ND	ND
Cannabidiol (CBD)	0.025	0.060	0.261	2.61
Delta 8-Tetrahydrocannabinol (Delta 8THC)	0.019	0.064	ND	ND
Cannabinolic Acid (CBNA)	0.011	0.036	ND	ND
Cannabinol (CBN)	0.005	0.017	ND	ND
Cannabigerolic acid (CBGA)	0.016	0.053	ND	ND
Cannabigerol (CBG)	0.004	0.013	0.015	0.15
Tetrahydrocannabivarinic Acid (THCVA)	0.014	0.045	ND	ND
Tetrahydrocannabivarin (THCV)	0.004	0.012	ND	ND
Cannabidivarinic Acid (CBDVA)	0.011	0.026	ND	ND
Cannabidivarin (CBDV)	0.006	0.014	ND	ND
Cannabichromenic Acid (CBCA)	0.006	0.021	ND	ND
Cannabichromene (CBC)	0.007	0.022	ND	ND
Total Cannabinoids			**0.276**	**2.76**
Total Potential THC**			ND	ND
Total Potential CBD**			0.261	2.61

Notes

N/A

Daniel Weidensaul
26-Aug-2021
03:50 PM

PREPARED BY / DATE

Ryan Weems
26-Aug-21
3:52 PM

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.
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)

CDPHE Certified

Certificate #4329.02

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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CERTIFICATE OF ANALYSIS

GUMSL10

Batch ID or Lot Number:	Test:	Reported:
J10SL03	**Pesticides**	**8/26/21**

Matrix:	Test ID:	Started:	USDA License:
Concentrate	T000158049	8/24/21	N/A

Status:	Method:	Received:	Sampler ID:
N/A	TM17(LC-QQQ LC MS/MS):	08/18/2021 @ 12:35 PM	N/A

PESTICIDE DETERMINATION

Compound	LOQ (ppb)	Result (ppb)	Compound	LOQ (ppb)	Result (ppb)	Compound	LOQ (ppb)	Result (ppb)
Acephate	28	ND	**Fenoxycarb**	41	ND	**Paclobutrazol**	43	ND
Acetamiprid	30	ND	**Fipronil**	55	ND	**Permethrin**	309	ND
Avermectin	273	ND	**Flonicamid**	58	ND	**Phosmet**	28	ND
Azoxystrobin	38	ND	**Fludioxonil**	370	ND	**Prophos**	370	ND
Bifenazate	42	ND	**Hexythiazox**	28	ND	**Propoxur**	34	ND
Boscalid	41	ND	**Imazalil**	293	ND	**Pyridaben**	291	ND
Carbaryl	31	ND	**Imidacloprid**	31	ND	**Spinosad A**	30	ND
Carbofuran	33	ND	**Kresoxim-methyl**	150	ND	**Spinosad D**	60	ND
Chlorantraniliprole	16	ND	**Malathion**	308	ND	**Spiromesifen**	226	ND
Chlorpyrifos	500	ND	**Metalaxyl**	39	ND	**Spirotetramat**	334	ND
Clofentezine	287	ND	**Methiocarb**	42	ND	**Spiroxamine 1**	21	ND
Diazinon	292	ND	**Methomyl**	29	ND	**Spiroxamine 2**	22	ND
Dichlorvos	300	ND	**MGK 264 1**	175	ND	**Tebuconazole**	339	ND
Dimethoate	39	ND	**MGK 264 2**	138	ND	**Thiacloprid**	36	ND
E-Fenpyroximate	274	ND	**Myclobutanil**	13	ND	**Thiamethoxam**	34	ND
Etofenprox	40	ND	**Naled**	42	ND	**Trifloxystrobin**	35	ND
Etoxazole	301	ND	**Oxamyl**	1500	ND			

Samantha Smith

Sam Smith
8/26/2021
4:08:00 PM

PREPARED BY / DATE

K Winternheimer

Karen Winternheimer
8/26/2021
4:11:00 PM

APPROVED BY / DATE

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:	Test:	Reported:
J10SL03	**Microbial Contaminants**	**8/23/21**

Matrix:	Test ID:	Started:	USDA License:
Finished Product	T000158050	8/19/21	N/A

Status:	Methods:	Received:	Sampler ID:
N/A	TM25 (qPCR) TM24, TM26, TM27(Culture Plating): Microbial (Colorado Panel)	08/18/2021 @ 12:35 PM	N/A

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	1.0x10^2 CFU/g
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

Brianne Maillot
8/23/2021
3:29:00 PM
PREPARED BY / DATE

Sarah Henning
8/23/2021
5:31:00 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

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CDPHE Certified

Certificate #4329.02

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GUMSL10

Batch ID or Lot Number:	Test:	Reported:
J10SL03	**Metals**	**8/20/21**

Matrix:	Test ID:	Started:	USDA License:
Unit Co	T000158051	8/19/21	N/A

Status:	Method:	Received:	Sampler ID:
N/A	TM19 (ICP-MS): Heavy Metals (Colorado Panel)	08/18/2021 @ 12:35 PM	N/A

HEAVY METALS DETERMINATION

Compound	Dynamic Range (ppm)	Result (ppm)
Arsenic	0.045 - 4.47	ND
Cadmium	0.044 - 4.43	ND
Mercury	0.044 - 4.38	ND
Lead	0.041 - 4.14	ND

Notes

Ryan Weems
20-Aug-21
9:26 AM
PREPARED BY / DATE

Sam Smith
20-Aug-21
9:29 AM
APPROVED BY / DATE

Definitions

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

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Certificate #4329.02

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GUMSL10

Batch ID or Lot Number:	Test:	Reported:
J10SL03	**Mycotoxins**	**8/24/21**

Matrix:	Test ID:	Started:	USDA License:
Concentrate	T000158053	8/23/21	N/A

Status:	Method:	Received:	Sampler ID:
N/A	TM18 (UHPLC-QQQ LCMS/MS): Mycotoxins (Colorado Panel)	08/18/2021 @ 12:35 PM	N/A

MYCOTOXIN DETERMINATION

Compound	Dynamic Range (ppb)	Result (ppb)
Ochratoxin A	3.6 - 130.2	ND
Aflatoxin B1	1 - 33.5	ND
Aflatoxin B2	1.1 - 32.8	ND
Aflatoxin G1	0.9 - 33	ND
Aflatoxin G2	1.2 - 31.4	ND
Total Aflatoxins (B1, B2, G1, and G2)		ND

Notes

N/A

Alex Smith
24-Aug-21
6:49 AM
PREPARED BY / DATE

Sam Smith
24-Aug-21
3:53 PM
APPROVED BY / DATE

Definitions

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

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Certificate #4329.02

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GUMSL10

Batch ID or Lot Number:	Test:	Reported:
J10SL03	**Residual Solvents**	**8/27/21**

Matrix:	Test ID:	Started:	USDA License:
N/A	T000158052	8/26/21	N/A

Status:	Methods:	Received:	Sampler ID:
N/A	TM04 (GC-MS): Residual Solvents (Colorado Panel)	08/18/2021 @ 12:35 PM	N/A

RESIDUAL SOLVENTS DETERMINATION

Solvent	Dynamic Range (ppm)	Result (ppm)
Propane	65 - 1302	*ND
Butanes (Isobutane, n-Butane)	124 - 2487	*ND
Methanol	47 - 941	*ND
Pentane	69 - 1380	*ND
Ethanol	75 - 1502	>1502
Acetone	78 - 1566	*ND
Isopropyl Alcohol	84 - 1687	*ND
Hexane	5 - 95	*ND
Ethyl Acetate	79 - 1577	*ND
Benzene	0 - 3	*ND
Heptanes	75 - 1495	*ND
Toluene	14 - 285	*ND
Xylenes (m,p,o-Xylenes)	103 - 2061	*ND

Notes

Ryan Weems
27-Aug-21
11:52 AM
PREPARED BY / DATE

Sam Smith
27-Aug-21
12:05 PM
APPROVED BY / DATE

Definitions

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

CDPHE Certified

Certificate #4329.02

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