JOYORGANICS

CERTIFICATE OF ANALYSIS

PRODUCT NAME:
PRODUCT STRENGTH:
BATCH:
BEST BY DATE:
HEMP EXTRACT LOT:

Joy Organics Strawberry Lemonade Gummies - Kosher Certified
10 mg CBD / gummy
J10SL03
08/2023
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

<u>Kayla Kolber</u> Quality Certified Kayla Kolber

08/30/2021

Date

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

1880 - S		C0325-				9/2027	USC	1639 Ce	rtificate of	r Ana	iysis
534748L		sample ID	26419						2021 (<u>×</u>	
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Δ9-tetrahydrocann			ND 0.00110								
Δ8-tetrahydrocann tetrahydrocannabiv	5 / 2 3		ND 0.002 0 ND 0.001 0								
cannabidiolic acid			0.91% 0.00110	.004 l ±	0.025%						
cannabidiol (CBD)	20.4		81.53% 0.00110								
cannabidivarin (CE cannabigerolic acid			0.19% 0.00110 ND 0.00110								
cannabigerol (CBC		$0 \times$	4.75% <0.00110								
				.00111	0.112/0						
cannabinol (CBN) cannabichromene t = decarbed NT = not te	(CBC)	3/29	ND 0.001 0 ND 0.001 0 ND 0.001 0	.002 ± .004 ±	0.002% 0.004%	8 × 3, on limit 3/29/					
cannabichromene t = decarbed NT = not te Microbial M E.coli Salmonella sp. molds Ochratoxin A	(CBC) ested NL = SP-7.5.1. NA NA NA PASS	10 limit OCFU OCFU 10000CFU 20 ppb	ND 0.001 0 ND 0.001 0	.002 ± .004 ± on limit , L ISP-7.5.1. NA NA NA	0.002% 0.004% OQ = quantitatio	Pesticides Abamectin Acephate Acequinocyl Acetamiprid	PASS PASS	0.30 ppm 5.00 ppm 4.00 ppm 5.00 ppm	Fipronil Flonicamid Fludioxonil Hexythiazox	PASS PASS PASS	0.00 pp 2.00 pp 30.00 2.00 pp
cannabichromene = decarbed NT = not te Microbial M E.coli Salmonella sp. molds Ochratoxin A Aflatoxin	(CBC) ested NL = SP-7.5.1. NA NA NA PASS PASS	10 limit 0CFU 0CFU 10000CFU 20 ppb 20 ppb	ND 0.00110 ND 0.00110 ot detected, LOD = detectio Metals M Arsenic Cadmium Lead Mercury	.002 ± .004 ± on limit , L ISP-7.5.1. NA NA NA NA	0.002% 0.004% OQ = quantitation 11 limit 200 ppb 200 ppb 500 ppb 300 ppb	Pesticides Abamectin Acephate Acequinocyl Acetamiprid Aldicarb Azoxystrobin	PASS PASS PASS PASS PASS PASS	0.30 ppm 5.00 ppm 4.00 ppm 5.00 ppm 0.00 ppm 40.00	Fipronil Flonicamid Fludioxonil Hexythiazox Imazalil Imidacloprid	PASS PASS PASS PASS PASS PASS	0.00 pp 2.00 pp 30.00 2.00 pp 0.00 pp 3.00 pp
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cannabichromene = decarbed NT = not te Microbial M E.coli Salmonella sp. molds Ochratoxin A <u>A</u> flatoxin Solvents M Acetone Acetonitrile Benzene Butane Chloroform Cyclohexane Ethanol Heptane Hexane Isopropyl alcohol Methanol Pentane Propane Toluene	(CBC) asted NL = SP-7.5.1. NA NA PASS	0 limit 0CFU 0CFU 10000CFU 20 ppb 20 ppb 20 ppb 7 limit 3100 ppm 6 ppm 0 ppm 3880 ppm 5000 ppm 3880 ppm 5000 ppm 300 ppm 5000 ppm 5000 ppm 5000 ppm 5000 ppm 5000 ppm 5000 ppm 5000 ppm 30 ppm 5000 ppm 30 ppm	ND 0.00110 ND 0.00110 ot detected, LOD = detectiv Metals M Cadmium Lead Mercury Pesticides Permethrin Phosmet Piperonylbutoxide Prallethrin Propiconazole Propoxur Pyrethrin Pyridaben Spineoram Spinosad Spiromesifen Spirotetramat Spiroxamine Tebuconazole	002 I ± 004 I ± 0000 I ± 0000 I ± 0000 I ± 00000 I ± 00000 I ± 0000 I	0.002% 0.004% 0.004% 0.00 equantitation 11 limit 200 ppb 200 ppb 200 ppb 300 ppb 300 ppb 300 ppb 300 ppb 3.00 ppm 2.00 ppm 3.00 ppm 3.00 ppm 3.00 ppm 3.00 ppm 1.00 ppm 3.00 ppm 3.00 ppm 3.00 ppm 3.00 ppm 3.00 ppm 4.50 ppm	Pesticides Abamectin Acephate Acequinocyl Acetamiprid Aldicarb Azoxystrobin Bifenazate Bifenthrin Boscalid Carbaryl Carbofuran Chloatraniliprole Chlorfenapyr Chlorpyrifos Clofentezine Coumaphos Cyfluthrin Daminozide Dichlorvos Diazinon Dimethoate	PASS PASS PASS PASS PASS PASS PASS PASS	0.30 ppm 5.00 ppm 4.00 ppm 5.00 ppm 0.00 ppm 40.00 500 ppm 0.50 ppm 0.00 ppm 0.00 ppm 0.50 ppm 0.50 ppm 0.50 ppm 1.00 ppm 1.00 ppm 0.00 ppm 0.00 ppm 0.00 ppm 0.00 ppm 0.00 ppm 0.00 ppm 0.00 ppm 0.00 ppm	Fipronil Flonicamid Fludioxonil Hexythiazox Imazalil Imidacloprid Malathion Methazyl Methoryl Methoryl Methoryl Methoryl Methoryl Methyl parathion Mevinphos Myclobutanil Naled Oxamyl Paclobutrazol Permethrin INSTRUMENTS potency: HPLC (LC terpenes: GCMS (QI pesticides: LCMSM mycotoxins: LCMSM	PASS PASS PASS PASS PASS PASS PASS PASS	0.00 pp 2.00 pp 30.00 pp 3.00 pp 5.00 pp 15.00 pp 15.00 pp 0.10 pp 0.00 pp 0.00 pp 0.00 pp 0.20 pp 0.20 pp 20.00
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cannabichromene = decarbed NT = not te Microbial M E.coli Salmonella sp. molds Ochratoxin A Aflatoxin Solvents M Acetone Acetonitrile Benzene Butane Chloroform Cyclohexane Ethanol Heptane Hexane Isopropyl alcohol Methanol Pentane Propane Toluene Xylenes	(CBC) asted NL = SP-7.5.1. NA NA PASS	0 limit 0CFU 0CFU 0CFU 20 ppb 20 ppb 20 ppb 7 limit 3100 ppm 6 ppm 0 ppm 3880 ppm 5000 ppm 3000 ppm 5000 ppm 320 ppm 5000 ppm 3000 ppm 5000 ppm 6007 607: Oine	ND 0.00110 ND 0.00110 ot detected, LOD = detectiv Metals M Cadmium Lead Mercury Pesticides P Permethrin Phosmet Piperonylbutoxide Prallethrin Propiconazole Propoxur Pyrethrin Propiconazole Spinoteramat Spinosad Spiromesifen Spirotetramat Sp	.002 I ± .004 I ± .00	0.002% 0.004% OQ = quantitati 11 limit 200 ppb 200 ppb 300 ppb 300 ppb 300 ppb 300 ppb 300 ppm 0.20 ppm 8.00 ppm 0.20 ppm 0.00 ppm 1.00 ppm 3.00 ppm 1.00 ppm 3.00 ppm 1.00 ppm 3.00 ppm 0.10 ppm 4.50 ppm 3.00 ppm 0.10 ppm 1.00 ppm 0.10 ppm 1.00 ppm 1.00 ppm 0.10 ppm 1.00 ppm 0.10 ppm 1.00 ppm	Pesticides Abamectin Acephate Acequinocyl Acetamiprid Aldicarb Azoxystrobin Bifenazate Bifenthrin Boscalid Carbaryl Carbofuran Chloantraniliprole Chlorfenapyr Chlorpyrifos Clofentezine Coumaphos Cyfluthrin Daminozide Dichlorvos Diazinon Dimethoate Etoxazole Fenoxycarb Fenoxycarb Fenoxycarb Fenoxycarb	PASS PASS PASS PASS PASS PASS PASS PASS	0.30 ppm 5.00 ppm 4.00 ppm 5.00 ppm 0.00 ppm 40.00 5:00 ppm 0.50 ppm 0.50 ppm 0.00 ppm 40.00 6:36 ppm 0.00 ppm	Fipronil Flonicamid Fludioxonil Hexythiazox Imazalil Imidacloprid Malathion Methaxyl Methiocarb Methomyl Methyl parathion Methomyl Methyl parathion Metholy	PASS PASS PASS PASS PASS PASS PASS PASS	0.00 pp 2.00 pp 30.00 pp 3.00 pp 5.00 pp 15.00 pp 15.00 pp 0.10 pp 0.00 pp 0.00 pp 0.00 pp 0.00 pp 0.20 pp 0.20 pp 20.00 pp



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

CANNABINOID PROFILE

Compound	LOD (%)	LOQ (%)	Result (%)	Result (mg/g)	Notes
Delta 9-Tetrahydrocannabinolic acid (THCA-A)	0.002	0.008	ND	ND	Notes
Delta 9-Tetrahydrocannabinol (Delta 9THC)	0.003	0.009	ND	ND	N/A
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	

Daniel Westernam

26-Aug-2021 03:50 PM PREPARED BY / DATE

m Neus

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 Quantitiation (LOQ) and above the Limit of Detection (LOD).

Daniel Weidensaul

** 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)







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 Small

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

Winternheimer

APPROVED BY / DATE

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

PREPARED BY / DATE

Definitions

LOQ = Limit of Quantification ppb = Parts per Billion





Batch ID or Lot Number: J10SL03	^{Test:} Microbial Contaminants	Reported: 8/23/21	
Matrix: Finished Product	Test ID: T000158050	Started: 8/19/21	USDA License: N/A
Status: N/A	Methods: TM25 (qPCR) TM24, TM26, TM27(Culture Plating): Microbial (Colorado Panel)	Received: 08/18/2021 @ 12:35 PM	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,
Total Coliforms*	TM-27, Culture Plating	10^2 CFU/g	10^2 CFU/g	1.5x10^4 CFU/g	None Detected	mildew, and foreign matter
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	

Buanne Maillot

Brianne Maillot 8/23/2021 3:29:00 PM



APPROVED BY / DATE

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

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

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

HEAVY METALS DETERMINATION

Compour	nd	Dynamic Range (ppm)	Result (ppm)	Notes
Arsenic		0.045 - 4.47	ND	
Cadmium		0.044 - 4.43	ND	
Mercury		0.044 - 4.38	ND	
Lead		0.041 - 4.14	ND	
flygen Neuros	Ryan Weems 20-Aug-21	Granze the	Sam Smith	
Referen Neuros	Ryan Weems 20-Aug-21 9:26 AM	Garmantha -	Sam Smith Smul 20-Aug-21 9:29 AM	

Definitions

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

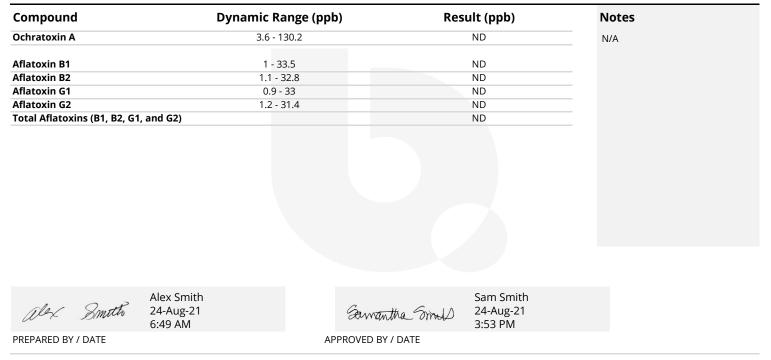






Batch ID or Lot Number: J10SL03	^{Test:} Mycotoxins	Reported: 8/24/21	
Matrix: Concentrate	Test ID: T000158053	Started: 8/23/21	USDA License: N/A
Status: N/A	Method: TM18 (UHPLC-QQQ LCMS/MS): Mycotoxins (Colorado Panel)	Received: 08/18/2021 @ 12:35 PM	Sampler ID: N/A

MYCOTOXIN DETERMINATION



Definitions

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



Certificate #4329.02



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

RESIDUAL SOLVENTS DETERMINATION

Solvent	Dynamic Range (ppm)	Result (ppm)	Notes
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	

Hypen Neuros	Ryan Weems 27-Aug-21 11:52 AM	Samonthe Small	Sam Smith 27-Aug-21 12:05 PM
PREPARED BY / DATE		APPROVED BY / DATE	

Definitions

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





