CERTIFICATE OF ANALYSIS

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

Green Apple Gummies - Kosher Certified
10 mg CBD / gummy
J10GA03
07/2023
CO325-003

Click on the links to view third-party reports

Physical Atttributes

Test	Method	Specification	Results
Color	Joy Internal	Medium Green	PASS
Odor	Joy Internal	Sweet, apple, sour	PASS
Appearance	Joy Internal	Medium green 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 25 mg / softgel	10.28 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 Kayla Kolber 0

Date

08/23/2021

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

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ertificate ID		total cannabinoids	87.39%	уре	er gram		Tested and Comp with 7USC1639		nplies		
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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/					
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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 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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Batch ID or Lot Number:	Test:	Reported:	
J10GA03	Potency	8/17/21	
Matrix:	Test ID:	Started:	USDA License:
Concentrate	T000154922	8/12/21	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)	Notos
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)	0.023	0.055	ND	ND	
Cannabidiol (CBD)	0.023	0.054	0.257	2.57	
Delta 8-Tetrahydrocannabinol (Delta 8THC)	0.017	0.058	ND	ND	
Cannabinolic Acid (CBNA)	0.010	0.033	ND	ND	
Cannabinol (CBN)	0.005	0.015	ND	ND	
Cannabigerolic acid (CBGA)	0.015	0.048	ND	ND	
Cannabigerol (CBG)	0.003	0.012	0.014	0.14	
Tetrahydrocannabivarinic Acid (THCVA)	0.012	0.041	ND	ND	
Tetrahydrocannabivarin (THCV)	0.003	0.011	ND	ND	
Cannabidivarinic Acid (CBDVA)	0.010	0.023	ND	ND	
Cannabidivarin (CBDV)	0.005	0.013	ND	ND	
Cannabichromenic Acid (CBCA)	0.006	0.019	ND	ND	
Cannabichromene (CBC)	0.006	0.020	ND	ND	
Total Cannabinoids			0.271	2.71	
Total Potential THC**			ND	ND	
Total Potential CBD**			0.257	2.57	

Daniel Wantanand

17-Aug-2021 01:50 PM

Toph Bil

APPROVED BY / DATE

Taylor Brevik

17-Aug-21

1:56 PM

PREPARED 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)

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.







Batch ID or Lot Number: J10GA03	Test: Pesticides	Reported: 8/16/21		
Matrix:	Test ID:	Started:	USDA License:	
Concentrate	T000154923	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			

 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

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Batch ID or Lot Number: J10GA03	^{Test:} Microbial Contaminants	Reported: 8/13/21	
Matrix: Finished Product	Test ID: T000154924	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

Method	LOD	LLOQ	ULOQ	Result	Notes
TM-26, Culture Plating	10^2 CFU/g	10^3 CFU/g	1.5x10^5 CFU/g	None Detected	Free from visual mold,
TM-27, Culture Plating	10^2 CFU/g	10^2 CFU/g	1.5x10^4 CFU/g	None Detected	mildew, and foreign matter
TM-24, Culture Plating	10^2 CFU/g	10^2 CFU/g	1.5x10^4 CFU/g	None Detected	
TM-25, PCR	1 CFU/25 g	NA	NA	Absent	
TM-25, PCR	1 CFU/25 g	NA	NA	Absent	
	TM-26, Culture Plating TM-27, Culture Plating TM-24, Culture Plating TM-25, PCR	TM-26, Culture Plating10^2 CFU/gTM-27, Culture Plating10^2 CFU/gTM-24, Culture Plating10^2 CFU/gTM-25, PCR1 CFU/25 g	TM-26, Culture Plating10^2 CFU/g10^3 CFU/gTM-27, Culture Plating10^2 CFU/g10^2 CFU/gTM-24, Culture Plating10^2 CFU/g10^2 CFU/gTM-25, PCR1 CFU/25 gNA	TM-26, Culture Plating 10^2 CFU/g 10^3 CFU/g 1.5x10^5 CFU/g TM-27, Culture Plating 10^2 CFU/g 10^2 CFU/g 1.5x10^4 CFU/g TM-24, Culture Plating 10^2 CFU/g 10^2 CFU/g 1.5x10^4 CFU/g TM-25, PCR 1 CFU/25 g NA NA	TM-26, Culture Plating10^2 CFU/g10^3 CFU/g1.5x10^5 CFU/gNone DetectedTM-27, Culture Plating10^2 CFU/g10^2 CFU/g1.5x10^4 CFU/gNone DetectedTM-24, Culture Plating10^2 CFU/g10^2 CFU/g1.5x10^4 CFU/gNone DetectedTM-25, PCR1 CFU/25 gNANAAbsent

7F

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

fun agen-Am

APPROVED BY / DATE

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

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Batch ID or Lot Number:	Test:	Reported:	
J10GA03	Metals	8/13/21	
Matrix:	Test ID:	Started:	USDA License:
Unit Co	T000154925	8/12/21	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) ${ m fl}$	Result (ppb)	Notes
Arsenic		0.044 - 4.39	ND	fl'3^aXkagdfWaf[`YVSfSS`V
Cadmium		0.048 - 4.78	ND	dwsg'fei WalvWvAWaL [`W[`
Mercury		0.044 - 4.38	ND	bb_S`VfZWaWsdWa
Lead		0.044 - 4.38	ND	UZS`YWYfa fZWMWg/fefZSf ZShVTWW dMxadWM a`k fZW [`UaddWfg`[feZShVTWW UZS`YWZ
Sawantha Smid	Sam Smith 13-Aug-21 1:11 PM	Dameel Woodonce	Daniel Weidensau 13-Aug-21 1:14 PM	IL
PREPARED BY / DATE		APPROVED BY / I	DATE	

Definitions

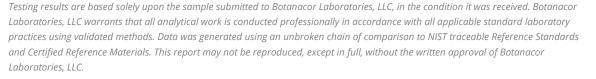
ND = None Detected (Defined by Dynamic Range of the method)



duluh

ACCREDITED

Certificate #4329.02





Batch ID or Lot Number:	^{Test:}	Reported:	
J10GA03	Mycotoxins	8/17/21	
Matrix:	Test ID:	Started:	USDA License:
Concentrate	T000154927	8/16/21	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)	N
Ochratoxin A	4.5 - 131.4	ND	N/A
Aflatoxin B1	1 - 33	ND	
Aflatoxin B2	1.1 - 33.2	ND	
Aflatoxin G1	1.1 - 32.5	ND	
Aflatoxin G2	1.2 - 32.1	ND	
Total Aflatoxins (B1, B2, G1, an	id G2)	ND	
S	Sam Smith	Courtney Richard	Is
Samantha Small 1	Sam Smith 17-Aug-21 2:13 PM	y Courtney Richard y Child 17-Aug-21 6:13 PM	ls

Definitions

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



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CDPHE Certified





Batch ID or Lot Number:	Test:	Reported:	
J10GA03	Residual Solvents	8/12/21	
Matrix:	Test ID:	Started:	USDA License:
N/A	T000154926	8/11/21	N/A
Status: N/A	Methods: TM04 (GC-MS): Residual Solver (Colorado Panel)	Received: nts 08/09/2021 @ 10:18 AM	Sampler ID: N/A

RESIDUAL SOLVENTS DETERMINATION

Solvent	Dynamic Range (ppm)	Result (ppm)	Notes
Propane	65 - 1301	*ND	-
Butanes (Isobutane, n-Butane)	122 - 2442	*ND	
Methanol	45 - 904	*ND	
Pentane	67 - 1336	*ND	
Ethanol	71 - 1428	>1428	
Acetone	74 - 1471	*ND	
Isopropyl Alcohol	81 - 1624	*ND	
Hexane	5 - 91	*ND	
Ethyl Acetate	75 - 1493	*ND	
Benzene	0 - 3	*ND	
Heptanes	71 - 1419	*ND	
Toluene	13 - 270	*ND	
Xylenes (m,p,o-Xylenes)	100 - 1994	*ND	

Winternheimen

Karen Winternheimer 12-Aug-21 3:07 PM

Hugen Veus

Ryan Weems 12-Aug-21 3:09 PM

PREPARED BY / DATE

APPROVED BY / DATE

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Definitions

Laboratories, LLC.

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



CDPHE Certified

