



JOY ORGANICS

CERTIFICATE OF ANALYSIS

PRODUCT NAME: Joy Organics Green Apple Gummies - Kosher Certified
PRODUCT STRENGTH: 10 mg / each
LOT NUMBER: 20090417110175
BEST BY DATE: 03/04/2022
GUMMY LOT NUMBER: [71-101755](#)

Physical Attributes

Test	Method	Specification	Results
Color	SOP-100	Medium Lime Green	PASS
Odor	SOP-100	Sweet, apple, sour	PASS
Appearance	SOP-100	Medium green gummies with sugar coating in child proof container	PASS
Primary Package Eval.	SOP-132	Container clean and free of filth. Container caps tight and shrink bands intact	PASS
Secondary Package Eval.	SOP-132	Labeling Compliance Checked, Cartons sturdy and clean. Sufficient cushion material exists. Box taped and secure.	PASS

Review of Third-Party Analysis

Panel	Method	Specification	Results	Pass/Fail
Potency - Total CBD	SOP-111	9.5-12.5 mg CBD / ea. LOQ*: 10 PPM† (0.001%)	13.84 mg	PASS
Potency - D9-THC	SOP-111	None Detected LOQ: 10 PPM (0.001%)	ND	PASS
FL Compliant Pesticide Panel	SOP-111	Florida State Hemp Program Rule 5B-57.014: Action Limits for Pesticides	ND	PASS
Microbial - Stec E.Coli	SOP-111	Complies with USP 61/62	>LOD	PASS
Microbial - Salmonella	SOP-111	Complies with USP 61/62	>LOD	PASS
Microbial - Aspergillus	SOP-111	Complies with USP 61/62	>LOD	PASS
CA Compliant Heavy Metal Panel	SOP-111	Arsenic (As): ≤1.5 PPM Cadmium (Cd): ≤0.5 PPM Mercury (Hg): ≤1.0 PPM Lead (Pb): ≤0.5 PPM	>LOD	PASS

* Level of Quantitation, † Parts Per Million

Quality Certified by:

Kei Horikawa
Kei Horikawa
Quality Control Manager

09/22/2020

Date

Product Name	10mg Hemp Green Apple 4g Cube	Lot Number	20090417110175
Item#	71-101755	Production Date	9/4/20
Serving	1 Gummy	Mfg Date	09 / 2020

Parameter	Specification	Results	Testing Method
Identification	Specification	Results	
Appearance	Gummy / Sugar Coated	Pass	Organoleptic Inspection
Shape	Cube	Pass	Organoleptic Inspection
Color	Green	Pass	Organoleptic Inspection
Flavor	Green Apple	Pass	Organoleptic Inspection
Unit Weight	4 ±.4g	Pass	Average Weight of 10 gummies

Parameter	Specification	Results	Testing Method
Microbiology			
Salmonella Spp.	Absent	Negative /25g	AOAC RI 061504
Escherichia Coli	<10 CFU/G	<3 MPN/g	FDA-BAM online, Ch.4
Total APC	<10 ⁴ CFU/G	<10 cfu/g	AOAC 966.23
Yeast	As Reported	<10 cfu/g	AOAC 995.21
Mold	As Reported	<10 cfu/g	AOAC 995.21
Total Yeast & Mold	<10 ³ CFU/G	<10 cfu/g	AOAC 995.21
Total Coliforms	10 ² CFU/G	<3 MPN/g	FDA-BAM online, Ch.4

Parameter	Specification	Results	Test Method
Functional Ingredient Potency			
CBD (Cannabidiol)	NLT 10 mg	13.84 mg	Cannabinoid Potency By HPLC Analysis Eurofins
Delta 9-THC	As Reported	<0.00250%	Cannabinoid Potency By HPLC Analysis Eurofins
THC-A	As Reported	<0.00250%	Cannabinoid Potency By HPLC Analysis Eurofins
Total THC + THC-A	NMT 0.005%	<0.00250%	Cannabinoid Potency By HPLC Analysis Eurofins

Parameter	Specification	Results	Testing Method
Heavy Metals			
Inorganic Arsenic	≤ 1.5 ppm	<0.0100 ppm	2011.19 AND 993.14, AOAC INTERNATIONAL
Cadmium	≤ 0.5 ppm	<0.00500 ppm	2011.19 AND 993.14, AOAC INTERNATIONAL
Lead	≤ 0.5 ppm	0.0115 ppm	2011.19 AND 993.14, AOAC INTERNATIONAL
Mercury	≤ 3 ppm	<0.00500 ppm	2011.19 AND 993.14, AOAC INTERNATIONAL

Parameter	Specification	Results	Testing Method
Pesticide			
Multi-Residue Analysis for Hemp Product - 500+ compounds		Pass	2007.01 , AOAC INTERNATIONAL

*Encapsulated ingredient

Signature: _____

Sergio Gomez - QA

Date: 9/16/2020 _____



10653 Progress Way
Cypress, CA 90630
714 657 7527 F 714 657 7234

TO:

Certificate of Analysis

COA #: Bett091020002

COA Date: 09/12/2020

Sample Received: 09/10/2020

Laboratory Results

Sample Description: 10mg Hemp Green Apple - Beginning Lot# 20090417110175 BN# 71-10175
FP
09/04/2020

FML#: Bett20-01412

Condition Received: Good

Temp. Received: 13.0C

<u>Analysis</u>	<u>Result</u>	<u>Units</u>	<u>Method Reference</u>	<u>Test Date</u>
Aerobic Plate Count	<10	cfu/g	AOAC 966.23	09/10/2020
Coliforms	<3	MPN/g	FDA-BAM online, Ch. 4	09/10/2020
E. coli	<3	MPN/g	FDA-BAM online, Ch. 4	09/10/2020
Listeria monocytogenes	Negative	/25g	AOAC RI 121602	09/10/2020
Mold	<10	cfu/g	AOAC 995.21	09/10/2020
S. aureus	<10	cfu/g	AOAC 2003.07	09/10/2020
Salmonella	Negative	/25g	AOAC RI 061504	09/10/2020
Yeast	<10	cfu/g	AOAC 995.21	09/10/2020

Sample Description: 10mg Hemp Green Apple - Middle Lot# 20090417110175 BN# 71-10175
FP
09/04/2020

FML#: Bett20-01413

Condition Received: Good

Temp. Received: 13.0C

<u>Analysis</u>	<u>Result</u>	<u>Units</u>	<u>Method Reference</u>	<u>Test Date</u>
Aerobic Plate Count	<10	cfu/g	AOAC 966.23	09/10/2020
Coliforms	<3	MPN/g	FDA-BAM online, Ch. 4	09/10/2020
E. coli	<3	MPN/g	FDA-BAM online, Ch. 4	09/10/2020
Listeria monocytogenes	Negative	/25g	AOAC RI 121602	09/10/2020
Mold	<10	cfu/g	AOAC 995.21	09/10/2020
S. aureus	<10	cfu/g	AOAC 2003.07	09/10/2020
Salmonella	Negative	/25g	AOAC RI 061504	09/10/2020
Yeast	<10	cfu/g	AOAC 995.21	09/10/2020

Sample Description: 10mg Hemp Green Apple - End Lot# 20090417110175 BN# 71-10175
FP
09/04/2020

FML#: Bett20-01414
Condition Received: Good
Temp. Received: 13.0C

<u>Analysis</u>	<u>Result</u>	<u>Units</u>	<u>Method Reference</u>	<u>Test Date</u>
Aerobic Plate Count	<10	cfu/g	AOAC 966.23	09/10/2020
Coliforms	<3	MPN/g	FDA-BAM online, Ch. 4	09/10/2020
E. coli	<3	MPN/g	FDA-BAM online, Ch. 4	09/10/2020
Listeria monocytogenes	Negative	/25g	AOAC RI 121602	09/10/2020
Mold	<10	cfu/g	AOAC 995.21	09/10/2020
S. aureus	<10	cfu/g	AOAC 2003.07	09/10/2020
Salmonella	Negative	/25g	AOAC RI 061504	09/10/2020
Yeast	<10	cfu/g	AOAC 995.21	09/10/2020

Approved by: Karilyn Gonzales

Karilyn Gonzales, M.S. Laboratory Director

The results of these tests relate only to the samples tested. This report shall not be reproduced except in full, without the written consent of the laboratory.

Certificate of Analysis

Sample Name:	10mg Hemp Green Apple - Beginning	Eurofins Sample:	9834384
Project ID	[REDACTED]-20200908-0267	Receipt Date	09-Sep-2020
PO Number	[REDACTED]	Receipt Condition	Ambient temperature
Lot Number	2009041	Login Date	08-Sep-2020
Sample Serving Size	4 g	Date Started	09-Sep-2020
Description	51-60141	Sampled	Sample results apply as received
		Online Order	11242-141A4E5A

Analysis	Result
Industrial Hemp Cannabinoid Profile	
CBDVA	<0.00250 %
CBDV	<0.00250 %
CBDA	<0.00250 %
CBGA	<0.00250 %
CBG	0.0165 %
CBD	0.345 %
THCV	<0.00250 %
CBN	<0.00250 %
Delta 9-THC	<0.00250 %
Delta 8-THC	<0.00500 %
THCA	<0.00250 %
CBC	<0.00250 %
Total Cannabinoids	0.362 %
Total THC (THC + (THCA x 0.877))	<0.00250 %
Total CBD (CBD + (CBDA x 0.877))	0.345 %

Method References	Testing Location
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Industrial Hemp Cannabinoid Profile (IHCBD_S)

Food Integrity Innovation-Madison
3301 Kinsman Blvd Madison, WI 53704 USA

Official Methods of Analysis, Method 2018.11, AOAC INTERNATIONAL, (Modified). Lukas Vaclavik, Frantisek Benes, Alex Krmela, Veronika Svobodova, Jana Hajsolva and Katerina Mastovska, "Quantification of Cannabinoids in Cannabis Dried Plant Materials, Concentrates, and Oils Liquid Chromatography-Diode Array Detection Technique with Optional Mass Spectrometric Detection, " First Action Method, Journal of AOAC International, Future Issue

Certificate of Analysis

Testing Location(s)**Released on Behalf of Eurofins by****Food Integrity Innovation-Madison****Edward Ladwig - President Eurofins Food
Chemistry Testing Madison**

Eurofins Food Chemistry Testing Madison, Inc.
3301 Kinsman Blvd
Madison WI 53704
800-675-8375



2918.01

These results apply only to the items tested. This certificate of analysis shall not be reproduced, except in its entirety, without the written approval of Eurofins.

Certificate of Analysis

Sample Name:	10mg Hemp Green Apple - Middle	Eurofins Sample:	9834385
Project ID	[REDACTED]-20200908-0267	Receipt Date	09-Sep-2020
PO Number	[REDACTED]	Receipt Condition	Ambient temperature
Lot Number	2009041	Login Date	08-Sep-2020
Sample Serving Size	4 g	Date Started	09-Sep-2020
Description	51-60141	Sampled	Sample results apply as received
		Online Order	11242-141A4E5A

Analysis	Result
Industrial Hemp Cannabinoid Profile	
CBDVA	<0.00250 %
CBDV	<0.00250 %
CBDA	<0.00250 %
CBGA	<0.00250 %
CBG	0.0171 %
CBD	0.341 %
THCV	<0.00250 %
CBN	<0.00250 %
Delta 9-THC	<0.00250 %
Delta 8-THC	<0.00500 %
THCA	<0.00250 %
CBC	<0.00250 %
Total Cannabinoids	0.358 %
Total THC (THC + (THCA x 0.877))	<0.00250 %
Total CBD (CBD + (CBDA x 0.877))	0.341 %
Elements by ICP Mass Spectrometry	
Arsenic	<0.0100 ppm
Cadmium	<0.00500 ppm
Lead	0.00600 ppm
Mercury	<0.00500 ppm

Analysis	Limit	Result
Multi-Residue Analysis for hemp products - 500+ compounds		
Abamectin		<0.30 mg/kg
Acephate		<0.10 mg/kg
Acequinocyl		<1.0 mg/kg
Acetamiprid		<0.10 mg/kg
Acetochlor		<0.10 mg/kg
Acibenzolar-S-methyl		<0.10 mg/kg
Aclonifen		<0.10 mg/kg
Acrinathrin		<0.10 mg/kg
Alachlor		<0.10 mg/kg

Certificate of Analysis

Sample Name:	10mg Hemp Green Apple - Middle	Eurofins Sample:	9834385
Project ID	-20200908-0267	Receipt Date	09-Sep-2020
PO Number		Receipt Condition	Ambient temperature
Lot Number	2009041	Login Date	08-Sep-2020
Sample Serving Size	4 g	Date Started	09-Sep-2020
Description	51-60141	Sampled	Sample results apply as received
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Analysis	Limit	Result
Multi-Residue Analysis for hemp products - 500+ compounds		
Aldicarb		<0.10 mg/kg
Aldicarb sulfone (Aldoxycarb)		<0.10 mg/kg
Aldicarb sulfoxide		<0.10 mg/kg
Aldrin		<0.10 mg/kg
Allethrin		non-analyzable
Ametryn		<0.10 mg/kg
Aminocarb		<0.10 mg/kg
Amitraz metabolite DMF		<0.10 mg/kg
Anilofos		<0.10 mg/kg
Atrazine		<0.10 mg/kg
Azaconazole		<0.10 mg/kg
Azamethiphos		<0.10 mg/kg
Azinphos-ethyl		<0.10 mg/kg
Azinphos-methyl		<0.10 mg/kg
Azoxystrobin		<0.10 mg/kg
Beflubutamid		<0.10 mg/kg
Benalaxyl		<0.10 mg/kg
Bendiocarb		<0.10 mg/kg
Benfluralin		<0.10 mg/kg
Benoxacor		<0.10 mg/kg
Benzoximate		<0.10 mg/kg
Bifenazate		<0.10 mg/kg
Bifenox		<0.10 mg/kg
Bifenthrin		<0.10 mg/kg
Bitertanol		<0.10 mg/kg
Bixafen		<0.10 mg/kg
Boscalid		<0.10 mg/kg
Bromacil		<0.10 mg/kg
Bromophos-ethyl		<0.10 mg/kg
Bromophos-methyl		<0.10 mg/kg

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Project ID	-20200908-0267	Receipt Date	09-Sep-2020
PO Number		Receipt Condition	Ambient temperature
Lot Number	2009041	Login Date	08-Sep-2020
Sample Serving Size	4 g	Date Started	09-Sep-2020
Description	51-60141	Sampled	Sample results apply as received
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Analysis	Limit	Result
Multi-Residue Analysis for hemp products - 500+ compounds		
Bromopropylate		<0.10 mg/kg
Bromuconazole (2 diastereoisomers)		<0.10 mg/kg
Bupirimate		<0.10 mg/kg
Buprofezin		<0.10 mg/kg
Butachlor		<0.10 mg/kg
Butafenacil		<0.10 mg/kg
Butocarboxim		<0.10 mg/kg
Butocarboxim sulfoxide		<0.10 mg/kg
Butoxycarboxim		<0.10 mg/kg
Butylate		<0.10 mg/kg
Cadusafos		<0.10 mg/kg
Captan (as THPI)		<0.20 mg/kg
Carbaryl		<0.10 mg/kg
Carbendazim		<0.20 mg/kg
Carbetamide		<0.10 mg/kg
Carbofuran		<0.10 mg/kg
Carbofuran-3-hydroxy-		<0.10 mg/kg
Carbophenothion		<0.10 mg/kg
Carboxin		<0.10 mg/kg
Carfentrazone-ethyl		<0.10 mg/kg
Chlorantraniliprole		<0.10 mg/kg
Chlorbromuron		<0.10 mg/kg
Chlordane, cis-		<0.10 mg/kg
Chlordane, trans-		<0.10 mg/kg
Chlorfenapyr		<0.10 mg/kg
Chlorfenvinphos (E- and Z-isomers)		<0.10 mg/kg
Chloridazon (Pyrazon)		<0.10 mg/kg
Chlorobenzilate		<0.10 mg/kg
Chlorotoluron (Chlortoluron)		<0.10 mg/kg
Chloroxuron		<0.10 mg/kg

Certificate of Analysis

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Project ID	-20200908-0267	Receipt Date	09-Sep-2020
PO Number		Receipt Condition	Ambient temperature
Lot Number	2009041	Login Date	08-Sep-2020
Sample Serving Size	4 g	Date Started	09-Sep-2020
Description	51-60141	Sampled	Sample results apply as received
		Online Order	11242-141A4E5A

Analysis	Limit	Result
Multi-Residue Analysis for hemp products - 500+ compounds		
Chlorpropham (CIPC)		<0.10 mg/kg
Chlorpyrifos		<0.10 mg/kg
Chlorpyrifos-methyl		<0.10 mg/kg
Clodinafop-propargyl		<0.20 mg/kg
Clofentezine		<0.10 mg/kg
Clomazone		<0.10 mg/kg
Cloquintocet-mexyl		<0.10 mg/kg
Clothianidin		<0.10 mg/kg
Coumaphos		<0.10 mg/kg
Cyanazine		<0.10 mg/kg
Cyanofenphos		non-analyzable
Cyazofamid		<0.10 mg/kg
Cycloate		non-analyzable
Cycluron		<0.10 mg/kg
Cyflufenamid		<0.10 mg/kg
Cyfluthrin		<0.10 mg/kg
Cymiazole		<0.10 mg/kg
Cymoxanil		<0.10 mg/kg
Cypermethrin		<0.10 mg/kg
Cyproconazole (2 diastereoisomers)		<0.10 mg/kg
Cyprodinil		<0.10 mg/kg
DDD, o,p'-		<0.10 mg/kg
DDD, p,p'-		<0.10 mg/kg
DDE, o,p'-		<0.10 mg/kg
DDE, p,p'-		<0.10 mg/kg
DDT, o,p'-		<0.10 mg/kg
DDT, p,p'-		<0.10 mg/kg
DEET (Diethyltoluamide)		<0.10 mg/kg
DMST (Dimethylaminosulfotoluidide)		<0.10 mg/kg
Dacthal (Chlorthal-dimethyl, DCPA)		<0.10 mg/kg

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Project ID	-20200908-0267	Receipt Date	09-Sep-2020
PO Number		Receipt Condition	Ambient temperature
Lot Number	2009041	Login Date	08-Sep-2020
Sample Serving Size	4 g	Date Started	09-Sep-2020
Description	51-60141	Sampled	Sample results apply as received
		Online Order	11242-141A4E5A

Analysis	Limit	Result
Multi-Residue Analysis for hemp products - 500+ compounds		
Deltamethrin		<0.10 mg/kg
Demeton-O		<0.10 mg/kg
Demeton-S		<0.10 mg/kg
Demeton-S-methyl		<0.10 mg/kg
Demeton-S-methyl sulfone		<0.10 mg/kg
Desmedipham		<0.10 mg/kg
Dialifos (Dialifor)		<0.10 mg/kg
Diazinon		<0.10 mg/kg
Diazinon oxon		<0.10 mg/kg
Dichlobenil		<0.10 mg/kg
Dichlofenthion		<0.10 mg/kg
Dichlofluanid		<0.10 mg/kg
Dichlorvos		<0.10 mg/kg
Diclobutrazol		<0.10 mg/kg
Diclocymet (2 diastereoisomers)		<0.10 mg/kg
Dicloran (DCNA)		<0.10 mg/kg
Dicrotophos		<0.10 mg/kg
Dieldrin		<0.10 mg/kg
Diethofencarb		<0.10 mg/kg
Difenoconazole (cis- and trans-)		<0.10 mg/kg
Diiflubenzuron		<0.10 mg/kg
Diiflufenican		<0.10 mg/kg
Dimethachlor		<0.10 mg/kg
Dimethametryn		<0.10 mg/kg
Dimethenamid		<0.10 mg/kg
Dimethoate		<0.10 mg/kg
Dimethomorph (E- and Z-isomers)		<0.10 mg/kg
Dimetilan		<0.10 mg/kg
Dimoxystrobin		<0.10 mg/kg
Diniconazole		<0.10 mg/kg

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Project ID	-20200908-0267	Receipt Date	09-Sep-2020
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Lot Number	2009041	Login Date	08-Sep-2020
Sample Serving Size	4 g	Date Started	09-Sep-2020
Description	51-60141	Sampled	Sample results apply as received
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Analysis	Limit	Result
Multi-Residue Analysis for hemp products - 500+ compounds		
Dinitramine		<0.20 mg/kg
Dinotefuran		<0.10 mg/kg
Dioxacarb		<0.10 mg/kg
Diphenamid		<0.10 mg/kg
Diphenylamine		<0.10 mg/kg
Dipropetryn		<0.10 mg/kg
Disulfoton		<0.10 mg/kg
Disulfoton sulfone		<0.10 mg/kg
Disulfoton sulfoxide		<0.10 mg/kg
EPN		<0.10 mg/kg
Endosulfan I (alpha-isomer)		<0.20 mg/kg
Endosulfan II (beta-isomer)		<0.20 mg/kg
Endosulfan sulfate		<0.20 mg/kg
Epoxiconazole		<0.10 mg/kg
Ethaboxam		<0.10 mg/kg
Ethalfuralin		<0.10 mg/kg
Ethidimuron (Sulfadiazole)		<0.10 mg/kg
Ethiofencarb		<0.10 mg/kg
Ethiofencarb sulfone		<0.10 mg/kg
Ethiofencarb sulfoxide		<0.10 mg/kg
Ethion		<0.10 mg/kg
Ethiprole		<0.10 mg/kg
Ethirimol		<0.10 mg/kg
Ethofumesate		<0.20 mg/kg
Ethoprophos (Ethoprop)		<0.10 mg/kg
Etofenprox		<0.10 mg/kg
Etoxazole		<0.10 mg/kg
Etrimfos		<0.10 mg/kg
Famoxadone		<0.10 mg/kg
Fenamidone		<0.10 mg/kg

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Project ID	-20200908-0267	Receipt Date	09-Sep-2020
PO Number		Receipt Condition	Ambient temperature
Lot Number	2009041	Login Date	08-Sep-2020
Sample Serving Size	4 g	Date Started	09-Sep-2020
Description	51-60141	Sampled	Sample results apply as received
		Online Order	11242-141A4E5A

Analysis	Limit	Result
Multi-Residue Analysis for hemp products - 500+ compounds		
Fenamiphos		<0.10 mg/kg
Fenamiphos sulfone		<0.10 mg/kg
Fenamiphos sulfoxide		<0.10 mg/kg
Fenarimol		<0.10 mg/kg
Fenazaquin		<0.10 mg/kg
Fenbuconazole		<0.10 mg/kg
Fenchlorphos (Ronnell)		<0.10 mg/kg
Fenchlorphos oxon		<0.10 mg/kg
Fenitrothion		<0.10 mg/kg
Fenobucarb		<0.10 mg/kg
Fenoxanil (sum of isomers)		<0.10 mg/kg
Fenoxycarb		<0.10 mg/kg
Fenpropathrin		<0.10 mg/kg
Fenpyroximate		<0.10 mg/kg
Fensulfothion		<0.10 mg/kg
Fensulfothion oxon		<0.10 mg/kg
Fensulfothion oxon sulfone		<0.10 mg/kg
Fensulfothion sulfone		<0.10 mg/kg
Fenthion		<0.10 mg/kg
Fenthion oxon		<0.10 mg/kg
Fenthion oxon sulfone		<0.10 mg/kg
Fenthion oxon sulfoxide		<0.10 mg/kg
Fenthion sulfone		<0.10 mg/kg
Fenthion sulfoxide		<0.10 mg/kg
Fentrazamide		<0.10 mg/kg
Fenuron		<0.10 mg/kg
Fenvalerate/Esfenvalerate (sum of isomers)		<0.20 mg/kg
Fipronil		<0.10 mg/kg
Fipronil desulfinyl		<0.10 mg/kg
Fipronil sulfone		<0.10 mg/kg

Certificate of Analysis

Sample Name:	10mg Hemp Green Apple - Middle	Eurofins Sample:	9834385
Project ID	-20200908-0267	Receipt Date	09-Sep-2020
PO Number		Receipt Condition	Ambient temperature
Lot Number	2009041	Login Date	08-Sep-2020
Sample Serving Size	4 g	Date Started	09-Sep-2020
Description	51-60141	Sampled	Sample results apply as received
		Online Order	11242-141A4E5A

Analysis	Limit	Result
Multi-Residue Analysis for hemp products - 500+ compounds		
Flonicamid		<0.10 mg/kg
Fluazifop-butyl		<0.10 mg/kg
Flucythrinate (sum of isomers)		<0.20 mg/kg
Fludioxonil		<0.10 mg/kg
Flufenacet		<0.20 mg/kg
Flufenoxuron		<0.10 mg/kg
Flumioxazin		<0.10 mg/kg
Fluometuron		<0.10 mg/kg
Flupicolide		<0.10 mg/kg
Flupyram		<0.10 mg/kg
Fluoxastrobin		<0.10 mg/kg
Fluquinconazole		<0.10 mg/kg
Fluridone		<0.10 mg/kg
Flusilazole		<0.10 mg/kg
Flutolanil		<0.10 mg/kg
Flutriafol		<0.10 mg/kg
Fluvalinate tau- (sum of isomers)		<0.20 mg/kg
Fonofos		<0.10 mg/kg
Forchlorfenuron		<0.10 mg/kg
Formothion		<0.10 mg/kg
Fuberidazole		<0.10 mg/kg
Furalaxyl		<0.10 mg/kg
Furathiocarb		<0.10 mg/kg
Griseofulvin		<0.10 mg/kg
HCH, alpha- (alpha-BHC)		<0.10 mg/kg
HCH, beta- (beta-BHC)		<0.10 mg/kg
HCH, delta- (delta-BHC)		<0.10 mg/kg
Halofenozide		<0.10 mg/kg
Haloxypop-methyl		<0.10 mg/kg
Heptachlor		<0.10 mg/kg

Certificate of Analysis

Sample Name:	10mg Hemp Green Apple - Middle	Eurofins Sample:	9834385
Project ID	-20200908-0267	Receipt Date	09-Sep-2020
PO Number		Receipt Condition	Ambient temperature
Lot Number	2009041	Login Date	08-Sep-2020
Sample Serving Size	4 g	Date Started	09-Sep-2020
Description	51-60141	Sampled	Sample results apply as received
		Online Order	11242-141A4E5A

Analysis	Limit	Result
Multi-Residue Analysis for hemp products - 500+ compounds		
Heptachlor endo-epoxide		<0.10 mg/kg
Heptachlor exo-epoxide		<0.10 mg/kg
Hexachlorobenzene (HCB)		<0.10 mg/kg
Hexaconazole		<0.10 mg/kg
Hexaflumuron		<0.10 mg/kg
Hexazinone		<0.10 mg/kg
Hexythiazox		<0.10 mg/kg
Hydroprene, S- (sum of isomers)		non-analyzable
Imazalil		<0.10 mg/kg
Imazamethabenz-methyl		<0.10 mg/kg
Imidacloprid		<0.10 mg/kg
Indoxacarb		<0.10 mg/kg
Ipconazole		<0.10 mg/kg
Iprovalicarb		<0.10 mg/kg
Isocarbamid		<0.10 mg/kg
Isocarbophos		<0.10 mg/kg
Isofenphos		<0.10 mg/kg
Isofenphos-methyl		<0.10 mg/kg
Isoprocarb		<0.10 mg/kg
Isoprothiolane		<0.10 mg/kg
Isoproturon		<0.10 mg/kg
Isoxaben		<0.10 mg/kg
Isxadifen-ethyl		<0.10 mg/kg
Isxaflutole		<0.10 mg/kg
Isoxathion		<0.10 mg/kg
Kresoxim-methyl		<0.10 mg/kg
Lactofen		<0.10 mg/kg
Lenacil		<0.10 mg/kg
Lindane (gamma-HCH, gamma-BHC)		<0.10 mg/kg
Linuron		<0.10 mg/kg

Certificate of Analysis

Sample Name:	10mg Hemp Green Apple - Middle	Eurofins Sample:	9834385
Project ID	-20200908-0267	Receipt Date	09-Sep-2020
PO Number		Receipt Condition	Ambient temperature
Lot Number	2009041	Login Date	08-Sep-2020
Sample Serving Size	4 g	Date Started	09-Sep-2020
Description	51-60141	Sampled	Sample results apply as received
		Online Order	11242-141A4E5A

Analysis	Limit	Result
Multi-Residue Analysis for hemp products - 500+ compounds		
Lufenuron		non-analyzable
MGK 264 (sum of isomers)		<0.10 mg/kg
Malaoxon		<0.10 mg/kg
Malathion		<0.10 mg/kg
Mandipropamid		<0.10 mg/kg
Mecarbam		<0.10 mg/kg
Mepanipyrim		<0.10 mg/kg
Mepanipyrim-2-hydroxypropyl		<0.10 mg/kg
Mephosfolan		<0.10 mg/kg
Metaflumizone		<0.10 mg/kg
Metalaxyl		<0.10 mg/kg
Metamitron		<0.10 mg/kg
Metazachlor		<0.10 mg/kg
Metconazole		<0.10 mg/kg
Methabenzthiazuron		<0.10 mg/kg
Methacrifos		<0.10 mg/kg
Methamidophos		<0.10 mg/kg
Methidathion		<0.10 mg/kg
Methiocarb		<0.10 mg/kg
Methiocarb sulfone		<0.10 mg/kg
Methiocarb sulfoxide		<0.10 mg/kg
Methomyl		<0.10 mg/kg
Methoprotrene		<0.10 mg/kg
Methoxychlor		non-analyzable
Methoxyfenozide		<0.10 mg/kg
Metobromuron		<0.10 mg/kg
Metolachlor		<0.10 mg/kg
Metolcarb		<0.10 mg/kg
Metoxuron		<0.10 mg/kg
Metrafenone		<0.10 mg/kg

Certificate of Analysis

Sample Name:	10mg Hemp Green Apple - Middle	Eurofins Sample:	9834385
Project ID	-20200908-0267	Receipt Date	09-Sep-2020
PO Number		Receipt Condition	Ambient temperature
Lot Number	2009041	Login Date	08-Sep-2020
Sample Serving Size	4 g	Date Started	09-Sep-2020
Description	51-60141	Sampled	Sample results apply as received
		Online Order	11242-141A4E5A

Analysis	Limit	Result
Multi-Residue Analysis for hemp products - 500+ compounds		
Metribuzin		<0.10 mg/kg
Mevinphos (E- and Z-isomers)		<0.10 mg/kg
Mexacarbate		<0.10 mg/kg
Mirex		<0.10 mg/kg
Molinate		<0.10 mg/kg
Monocrotophos		<0.10 mg/kg
Monolinuron		<0.10 mg/kg
Myclobutanil		<0.10 mg/kg
Naled (Dibrom)		<0.10 mg/kg
Napropamide		<0.10 mg/kg
Neburon		<0.10 mg/kg
Nitenpyram		<0.10 mg/kg
Nitrofen		<0.10 mg/kg
Nonachlor, cis-		<0.10 mg/kg
Nonachlor, trans-		<0.10 mg/kg
Norflurazon		<0.10 mg/kg
Norflurazon-desmethyl		<0.10 mg/kg
Novaluron		<0.10 mg/kg
Nuarimol		<0.10 mg/kg
Ofurace		<0.10 mg/kg
Omethoate		<0.10 mg/kg
Oxadiazon		<0.10 mg/kg
Oxadixyl		<0.10 mg/kg
Oxamyl		<0.10 mg/kg
Oxamyl oxime		<0.10 mg/kg
Oxycarboxin		<0.10 mg/kg
Oxychlorane		<0.10 mg/kg
Oxydemeton-methyl		<0.10 mg/kg
Oxyfluorfen		<0.10 mg/kg
Paclobutrazol		<0.10 mg/kg

Certificate of Analysis

Sample Name:	10mg Hemp Green Apple - Middle	Eurofins Sample:	9834385
Project ID	-20200908-0267	Receipt Date	09-Sep-2020
PO Number		Receipt Condition	Ambient temperature
Lot Number	2009041	Login Date	08-Sep-2020
Sample Serving Size	4 g	Date Started	09-Sep-2020
Description	51-60141	Sampled	Sample results apply as received
		Online Order	11242-141A4E5A

Analysis	Limit	Result
Multi-Residue Analysis for hemp products - 500+ compounds		
Paraoxon		<0.10 mg/kg
Paraoxon-methyl		<0.10 mg/kg
Parathion		<0.10 mg/kg
Parathion-methyl		<0.10 mg/kg
Penconazole		<0.10 mg/kg
Pencycuron		<0.10 mg/kg
Pendimethalin		<0.10 mg/kg
Pentachloroaniline		<0.10 mg/kg
Pentachloroanisole		<0.10 mg/kg
Pentachlorobenzene		<0.10 mg/kg
Pentachlorobenzonitrile		<0.10 mg/kg
Pentachlorothioanisole		<0.10 mg/kg
Permethrin (sum of isomers)		<0.10 mg/kg
Perthane (Ethylan)		<0.10 mg/kg
Phenmedipham		<0.10 mg/kg
Phenthoate		<0.10 mg/kg
Phorate		<0.10 mg/kg
Phorate sulfone		<0.10 mg/kg
Phorate sulfoxide		<0.10 mg/kg
Phosalone		<0.10 mg/kg
Phosmet		<0.10 mg/kg
Phosmet oxon		<0.10 mg/kg
Phosphamidon (E- and Z-isomers)		<0.10 mg/kg
Phoxim		<0.10 mg/kg
Picolinafen		<0.10 mg/kg
Picoxystrobin		<0.10 mg/kg
Piperonyl butoxide		<0.10 mg/kg
Piperophos		<0.10 mg/kg
Pirimicarb		<0.10 mg/kg
Pirimicarb-desmethyl		<0.10 mg/kg

Certificate of Analysis

Sample Name:	10mg Hemp Green Apple - Middle	Eurofins Sample:	9834385
Project ID	-20200908-0267	Receipt Date	09-Sep-2020
PO Number		Receipt Condition	Ambient temperature
Lot Number	2009041	Login Date	08-Sep-2020
Sample Serving Size	4 g	Date Started	09-Sep-2020
Description	51-60141	Sampled	Sample results apply as received
		Online Order	11242-141A4E5A

Analysis	Limit	Result
Multi-Residue Analysis for hemp products - 500+ compounds		
Pirimiphos-ethyl		<0.10 mg/kg
Pirimiphos-methyl		<0.10 mg/kg
Pirimiphos-methyl, N-desethyl-		<0.10 mg/kg
Prallethrin		<1.0 mg/kg
Pretilachlor		<0.10 mg/kg
Prochloraz		<0.10 mg/kg
Procymidone		<0.10 mg/kg
Prodiamine		<0.10 mg/kg
Profenofos		<0.10 mg/kg
Profluralin		<0.10 mg/kg
Promecarb		<0.10 mg/kg
Prometon		<0.10 mg/kg
Prometryn		<0.10 mg/kg
Propanil		<0.10 mg/kg
Propaquizafop		<0.10 mg/kg
Propargite		<0.10 mg/kg
Propetamphos		<0.10 mg/kg
Propham		<0.10 mg/kg
Propiconazole (sum of isomers)		<0.10 mg/kg
Propoxur		<0.10 mg/kg
Propyzamide (Pronamide)		<0.10 mg/kg
Prosulfocarb		<0.10 mg/kg
Prothioconazole-desthio		non-analyzable
Prothiofos		<0.10 mg/kg
Pymetrozine		non-analyzable
Pyracarbolid		<0.10 mg/kg
Pyraclostrobin		<0.10 mg/kg
Pyraflufen-ethyl		<0.10 mg/kg
Pyrazophos		<0.10 mg/kg
Pyrethrum (total)		<1.0 mg/kg

Certificate of Analysis

Sample Name:	10mg Hemp Green Apple - Middle	Eurofins Sample:	9834385
Project ID	-20200908-0267	Receipt Date	09-Sep-2020
PO Number		Receipt Condition	Ambient temperature
Lot Number	2009041	Login Date	08-Sep-2020
Sample Serving Size	4 g	Date Started	09-Sep-2020
Description	51-60141	Sampled	Sample results apply as received
		Online Order	11242-141A4E5A

Analysis	Limit	Result
Multi-Residue Analysis for hemp products - 500+ compounds		
Pyridaben		<0.10 mg/kg
Pyridaphenthion		<0.10 mg/kg
PyrifenoX (E- and Z-isomers)		<0.10 mg/kg
Pyrimethanil		<0.10 mg/kg
Pyriproxyfen		<0.10 mg/kg
Pyroquilon		<0.10 mg/kg
Quinalphos		<0.10 mg/kg
Quinoclamine		<0.10 mg/kg
Quinoxifen		<0.10 mg/kg
Quintozene		<0.10 mg/kg
Quizalofop-ethyl		<0.10 mg/kg
Rotenone		<0.10 mg/kg
S421		<0.10 mg/kg
Schradan (Octamethylpyrophosphoramidate)		non-analyzable
Secbumeton		<0.10 mg/kg
Siduron		<0.10 mg/kg
Silthiofam		<0.10 mg/kg
Simazine		<0.10 mg/kg
Simeconazole		<0.10 mg/kg
Simetryn		<0.10 mg/kg
Spinetoram (spinosyns J and L)		<0.10 mg/kg
Spinosad (spinosyns A and D)		<0.10 mg/kg
Spirodiclofen		non-analyzable
Spiromesifen		<0.10 mg/kg
Spirotetramat		<0.10 mg/kg
Spiroxamine (2 diastereoisomers)		<0.10 mg/kg
Sulfallate		<0.10 mg/kg
Sulprofos		<0.10 mg/kg
Tebuconazole		<0.10 mg/kg
Tebufenozide		<0.10 mg/kg

Certificate of Analysis

Sample Name:	10mg Hemp Green Apple - Middle	Eurofins Sample:	9834385
Project ID	-20200908-0267	Receipt Date	09-Sep-2020
PO Number		Receipt Condition	Ambient temperature
Lot Number	2009041	Login Date	08-Sep-2020
Sample Serving Size	4 g	Date Started	09-Sep-2020
Description	51-60141	Sampled	Sample results apply as received
		Online Order	11242-141A4E5A

Analysis	Limit	Result
Multi-Residue Analysis for hemp products - 500+ compounds		
Tebufenpyrad		<0.10 mg/kg
Tebupirimfos		<0.10 mg/kg
Tebuthiuron		<0.10 mg/kg
Tecnazene		<0.10 mg/kg
Teflubenzuron		<0.20 mg/kg
Tefluthrin		<0.10 mg/kg
Temephos		<0.10 mg/kg
Terbacil		<0.10 mg/kg
Terbufos		<0.10 mg/kg
Terbufos sulfone		<0.10 mg/kg
Terbufos sulfoxide		<0.10 mg/kg
Terbumeton		<0.10 mg/kg
Terbuthylazine		<0.10 mg/kg
Terbutryn		<0.10 mg/kg
Tetrachloroaniline, 2,3,5,6-		<0.10 mg/kg
Tetrachloroanisole, 2,3,4,5-		<0.10 mg/kg
Tetrachlorvinphos		<0.10 mg/kg
Tetraconazole		<0.10 mg/kg
Tetradifon		<0.10 mg/kg
Thiabendazole		<0.10 mg/kg
Thiabendazole-5-hydroxy-		<0.10 mg/kg
Thiacloprid		<0.10 mg/kg
Thiamethoxam		<0.10 mg/kg
Thiazopyr		<0.10 mg/kg
Thiobencarb (Benthiocarb)		<0.10 mg/kg
Thiodicarb		<0.10 mg/kg
Thiofanox		<0.10 mg/kg
Thiofanox sulfone		<0.10 mg/kg
Thiofanox sulfoxide		<0.10 mg/kg
Thionazin (Zinophos)		<0.10 mg/kg

Certificate of Analysis

Sample Name:	10mg Hemp Green Apple - Middle	Eurofins Sample:	9834385
Project ID	-20200908-0267	Receipt Date	09-Sep-2020
PO Number		Receipt Condition	Ambient temperature
Lot Number	2009041	Login Date	08-Sep-2020
Sample Serving Size	4 g	Date Started	09-Sep-2020
Description	51-60141	Sampled	Sample results apply as received
		Online Order	11242-141A4E5A

Analysis	Limit	Result
Multi-Residue Analysis for hemp products - 500+ compounds		
Thiophanate-methyl		<0.10 mg/kg
Tolclofos-methyl		<0.10 mg/kg
Tolfenpyrad		<0.10 mg/kg
Tolyfluanid		<0.10 mg/kg
Triadimefon		<0.10 mg/kg
Triadimenol		<0.10 mg/kg
Triazophos		<0.10 mg/kg
Tribufos (DEF)		<0.10 mg/kg
Trichlorfon (Metrifonate)		<0.10 mg/kg
Trichloroanisoole, 2,4,6-		<0.10 mg/kg
Tricyclazole		<0.10 mg/kg
Trietazine		<0.10 mg/kg
Trifloxystrobin		<0.10 mg/kg
Triflumizole		<0.10 mg/kg
Triflumuron		<0.10 mg/kg
Trifluralin		<0.10 mg/kg
Triforine		<0.20 mg/kg
Trimethacarb		<0.10 mg/kg
Triticonazole		<0.10 mg/kg
Uniconazole		<0.10 mg/kg
Vamidothion		<0.10 mg/kg
Vinclozolin		<0.10 mg/kg
Zoxamide		<0.10 mg/kg
Fosthiazate (sum of isomers)		<0.10 mg/kg
Fluxapyroxad		<0.1 mg/kg

Method References

Testing Location

Elements by ICP Mass Spectrometry (ICP_MS_S)

Food Integrity Innovation-Madison
3301 Kinsman Blvd Madison, WI 53704 USA

Certificate of Analysis

Method References

Testing Location

Elements by ICP Mass Spectrometry (ICP_MS_S)

Food Integrity Innovation-Madison

3301 Kinsman Blvd Madison, WI 53704 USA

Official Methods of Analysis, Method 2011.19 and 993.14, AOAC INTERNATIONAL, (Modified).

Paquette, L.H., Szabo, A., Thompson, J.J., "Simultaneous Determination of Chromium, Selenium, and Molybdenum in Nutritional Products by Inductively Coupled Plasma/Mass Spectrometry: Single-Laboratory Validation," Journal of AOAC International, 94(4): 1240 - 1252 (2011).

Industrial Hemp Cannabinoid Profile (IHCBD_S)

Food Integrity Innovation-Madison

3301 Kinsman Blvd Madison, WI 53704 USA

Official Methods of Analysis, Method 2018.11, AOAC INTERNATIONAL, (Modified). Lukas Vaclavik, Frantisek Benes, Alex Krmela, Veronika Svobodova, Jana Hajslova and Katerina Mastovska, "Quantification of Cannabinoids in Cannabis Dried Plant Materials, Concentrates, and Oils Liquid Chromatography-Diode Array Detection Technique with Optional Mass Spectrometric Detection," First Action Method, Journal of AOAC International, Future Issue

Multi-Residue Analysis for hemp products - 500+ compounds (PEST_HEMP)

Food Integrity Innovation-Madison

3301 Kinsman Blvd Madison, WI 53704 USA

Official Methods of Analysis, AOAC Official Method 2007.01, Pesticide Residues in Foods by Acetonitrile Extraction and Partitioning with Magnesium Sulfate, AOAC INTERNATIONAL (modified).

CEN Standard Method EN 15662: Food of plant origin - Determination of pesticide residues using GC-MS and/or LC-MS/MS following acetonitrile extraction/partitioning and clean-up by dispersive SPE - QuEChERS method.

List of the tested pesticides and their limits of quantification (LOQs) are available upon request.

Testing Location(s)

Released on Behalf of Eurofins by

Food Integrity Innovation-Madison

Edward Ladwig - President Eurofins Food Chemistry Testing Madison

Eurofins Food Chemistry Testing Madison, Inc.
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Madison WI 53704
800-675-8375



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Certificate of Analysis

Sample Name:	10mg Hemp Green Apple - End	Eurofins Sample:	9834485
Project ID	-20200908-0267	Receipt Date	09-Sep-2020
PO Number		Receipt Condition	Ambient temperature
Lot Number	2009041	Login Date	08-Sep-2020
Sample Serving Size	4 g	Date Started	09-Sep-2020
Description	51-60141	Sampled	Sample results apply as received
		Online Order	11242-141A4E5A

Analysis
Result
Industrial Hemp Cannabinoid Profile

CBDVA	<0.00250 %
CBDV	<0.00250 %
CBDA	<0.00250 %
CBGA	<0.00250 %
CBG	0.0176 %
CBD	0.339 %
THCV	<0.00250 %
CBN	<0.00250 %
Delta 9-THC	<0.00250 %
Delta 8-THC	<0.00500 %
THCA	<0.00250 %
CBC	<0.00250 %
Total Cannabinoids	0.357 %
Total THC (THC + (THCA x 0.877))	<0.00250 %
Total CBD (CBD + (CBDA x 0.877))	0.339 %

Method References
Testing Location
Industrial Hemp Cannabinoid Profile (IHCBD_S)
Food Integrity Innovation-Madison

3301 Kinsman Blvd Madison, WI 53704 USA

Official Methods of Analysis, Method 2018.11, AOAC INTERNATIONAL, (Modified). Lukas Vaclavik, Frantisek Benes, Alex Krmela, Veronika Svobodova, Jana Hajsolva and Katerina Mastovska, "Quantification of Cannabinoids in Cannabis Dried Plant Materials, Concentrates, and Oils Liquid Chromatography-Diode Array Detection Technique with Optional Mass Spectrometric Detection," First Action Method, Journal of AOAC International, Future Issue

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Chemistry Testing Madison**

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