

Manifest: 2201050007
Sample Id: 1A-GHEMP-2201050007-0004
Sample Name: Blueberry Dream N01455
Sample Type: Infused (edible)
Client Id: CID-50200
Client: Happy Fruit LLC
Address: 6500 S Quebec St, Unit 280, Centennial, CO 80111

Test Performed: Hemp Lab
Report No: P-2201050007-V3
Receive Date: 2022-01-05
Test Date: 2022-01-07
Report Date: 2022-01-10
Sample Condition: Good
Method Reference: GH-OP-06

Scope

The content of sixteen cannabinoids was determined by an in-house developed method for solvent extraction followed by High Performance Liquid Chromatography with Diode Array Detection.

Cannabinoids	mg/unit	mg/gram
CBDV	ND	ND
CBDA	ND	ND
CBGA	ND	ND
CBG	ND	ND
CBD	T	T
THCV	ND	ND
CBN	12.15	1.97
Δ9-THC	11.86	1.92
CBC	ND	ND
THCA	ND	ND
CBDVA	ND	ND
THCVA	ND	ND
CBNA	ND	ND
Δ8-THC	ND	ND
CBL	ND	ND
CBCA	ND	ND

ND - not detected; T - trace; LOQ - limit of quantitation; LOD - limit of detection

	mg/unit	mg/gram
Total Δ9-THC	11.86	1.92
Total CBD	T	T
Total CBG	0.00	0.00
Total Cannabinoids	24.01	3.88
Total Δ9-THC (%)		0.19%

Total Δ9-THC = Δ9-THC + (THCA x 0.877)

Total CBD = CBD + (CBDA x 0.877)

Total CBG = CBG + (CBGA x 0.877)

Net Weight (g)

6.18

Laboratory Comments:



Jerry Hogan - Director of Operations

2022-01-10

Date

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Address: 6500 S Quebec St, Unit 280, Centennial, CO 80111

Test Performed: Hemp Lab
Report No: R-2201050007-V1
Receive Date: 2022-01-05
Test Date: 2022-01-06
Report Date: 2022-01-12
Sample Condition: Good
Method Reference: GH-OP-16

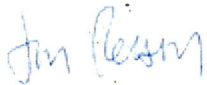
Scope

Ochratoxin and Total Aflatoxin were quantified using liquid chromatography coupled to multiple mass spectrometry (LC-MS/MS) equipped with electrospray ionization (ESI) in positive mode after sample extraction. Identification was based on the retention time of each compound and the product mass generated using single reaction monitoring (SRM). Quantitation was determined using external calibration:

Mycotoxins	LOD (ppm)	LOQ (ppm)	Reporting Limits (ppm)	Parts Per Million (ppm)
Aflatoxin G2	0.0019	0.0050	0.0050	ND
Aflatoxin G1	0.0011	0.0050	0.0050	ND
Aflatoxin B2	0.0017	0.0050	0.0050	ND
Aflatoxin B1	0.0015	0.0050	0.0050	ND
Ochratoxin A	0.0033	0.0050	0.0050	ND

ND - not detected; T - trace; ULOQ - upper limit of quantitation; LOD - limit of detection; LOQ - limit of quantitation

Laboratory Comments:



2022-01-12

Jon Person Client Relations Manager

Date

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Analytical Report - Certificate of Analysis



Manifest: 2201050007
Sample Id: 1A-GHEMP-2201050007-0004
Sample Name: Blueberry Dream N01455
Sample Type: Infused (edible)
Client Id: CID-50200
Client: Happy Fruit LLC
Address: 6500 S Quebec St, Unit 280, Centennial, CO 80111

Test Performed: Hemp Lab
Intended Use: Inhaled or Audited Product
Report No: MT-2201050007-V1
Receive Date: 2022-01-05
Test Date: 2022-01-07
Report Date: 2022-01-11
Sample Condition: Good
Method Reference: GH-OP-17

Scope

Arsenic, Cadmium, Lead and Mercury were determined by an Inductively Coupled Plasma Mass Spectrometer (ICP-MS) using an in-house developed method.

Metals	LOD (ppm)	LOQ (ppm)	Sample Reporting Limit (ppm)	Parts Per Million (ppm)
Arsenic	0.007	0.025	0.500	ND
Cadmium	0.003	0.010	0.100	ND
Lead	0.003	0.010	0.100	ND
Mercury	0.0009	0.003	0.100	ND

ND - not detected; T - trace; ULOQ - upper limit of quantitation; LOD - limit of detection; LOQ - limit of quantitation

Laboratory Comments:

Jon Person

Jon Person Client Relations Manager

2022-01-11

Date

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Manifest: 2201050007
Sample Id: 1A-GHEMP-2201050007-0004
Sample Name: Blueberry Dream N01455
Sample Type: Infused (edible)
Client Id: CID-50200
Client: Happy Fruit LLC
Address: 6500 S Quebec St, Unit 280, Centennial, CO 80111

Test Performed: Hemp Lab
Report No: R-2201050007-V3
Receive Date: 2022-01-05
Test Date: 2022-01-07
Report Date: 2022-01-10
Sample Condition: Good
Method Reference: GH-OP-08

Scope

The content of fifteen residual solvents was determined by an in-house developed method for Headspace-Gas Chromatography with Flame Ionization Detection.

Solvents	LOD (ppm)	LOQ (ppm)	Parts Per Million (ppm)
Propane	135	372	ND
Iso-Butane	82	490	ND
N-Butane	107	490	ND
Methanol	38	120	ND
Pentane	73	100	ND
Ethanol	50	200	223.40
Acetone	82	200	ND
IPA	40	200	ND
Hexane	25	50	ND
Ethyl Acetate	57	200	ND
Benzene	0.65	1	ND
Heptane	137	200	ND
Toluene	75	100	ND
Xylenes	112	200	ND

ND - not detected; T - trace; ULOQ - upper limit of quantitation; LOD - limit of detection; LOQ - limit of quantitation

Laboratory Comments:



Jerry Hogan - Director of Operations

2022-01-10

Date

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Pesticide Residues Report - Certificate of Analysis



Manifest: 2201050007
Sample Id: 1A-GHEMP-2201050007-0004
Sample Name: Blueberry Dream N01455
Sample Type: Infused (edible)
Client Id: CID-50200
Client: Happy Fruit LLC
Address: 6500 S Quebec St, Unit 280, Centennial, CO 80111

Test Performed: Hemp Lab
Report No: PE-2201050007-V2
Receive Date: 2022-01-05
Test Date: 2022-01-07
Report Date: 2022-01-12
Sample Condition: Good
Method Reference: GH-OP-11

Scope

The content of 60 pesticides were quantified using liquid chromatography coupled to multiple mass spectrometry (LC-MS2) equipped with electrospray ionization (ESI) in positive mode after sample extraction using methodology based on AOAC 2007 and EN 15662 standard procedures. Identification was based on the retention time of each compound and the product mass generated using single reaction monitoring (SRM), and quantitation was determined using external standard calibration.

Analyte	Reporting Level µg/g	µg/g	Analyte	Reporting Level µg/g	µg/g
Avermectin B1a	0.1	ND	Hexythiazox	0.1	ND
Acephate	0.1	ND	Imazilil	0.1	ND
Acetamiprid	0.1	ND	Imidacloprid	0.1	ND
Aldicarb	0.1	NT	Kresoxim Methyl	0.1	ND
Azoxystrobin	0.1	ND	Malathion	0.1	ND
Bifenazate	0.1	ND	Metalaxyl	0.1	ND
Bifenthrin	0.1	ND	Methiocarb	0.1	ND
Boscalid	0.1	ND	Methomyl	0.1	NT
Captan	0.1	ND	Mevinphos*	0.1	ND
Carbaryl	0.1	ND	MGK-264	0.1	ND
Carbofuran	0.1	ND	Myclobutanil	0.1	ND
Chlorantraniliprole	0.1	ND	Oxamyl	0.1	ND
Chlordane	0.1	ND	Paclobutrazol	0.1	ND
Chlorpyrifos	0.1	ND	Pentachloronitrobenzene	0.1	ND
Clofentazine	0.1	ND	Permethrin*	0.1	ND
Coumaphos	0.1	ND	Imidan(Phosmet)	0.1	ND
Baythroid (Cyfluthrin)*	0.1	NT	Piperonyl Butoxide	0.1	ND
Cypermethrin*	0.1	NT	Propiconazole	0.1	ND
Dichlorvos	0.1	ND	Propuxor	0.1	ND
Diazinon	0.1	ND	Pyrethrin*	0.1	ND
Dimethoate	0.1	ND	Pyridaben	0.1	ND
Dimethomorph*	0.1	ND	Spinetoram	0.1	ND
Prophos	0.1	ND	Spinosad*	0.1	ND
Etofenprox	0.1	ND	Spiromefesin	0.1	ND
Etoxazole	0.1	ND	Spirotetramat	0.1	ND
Fenhexamid	0.1	ND	Spiroxamine	0.1	ND
Fenoxycarb	0.1	ND	Tebuconazole	0.1	ND
Fenpyroximate	0.1	ND	Thiacloprid	0.1	ND
Fipronil	0.1	NT	Thiamethoxam	0.1	ND
Fonicamid	0.1	ND	Trifloxystrobin	0.1	ND
Fludioxonil	0.1	ND			

NT - not tested; ND - not detected above Reporting Level; T - trace; * Total of Isomers
Lab Comments:

Jerry Hogan - Director of Operations

2022-01-12

Date

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Manifest: 2201050007
Sample Type: Infused (edible)
Test Performed: Microbial Lab
Client Id: CID-50200
Client: Happy Fruit LLC
Address: 6500 S Quebec St, Unit 280, Centennial, CO 80111

Report No: M-2201050007-V1
Receive Date: 2022-01-05
Test Date: 2022-01-05
Report Date: 2022-01-12
Sample Condition: Good
Method Reference: MBH-OP-02, MBH-OP-03, MBH-OP-05

Scope

Contaminant testing for the identified pathogens *Salmonella spp.* and *Shiga Toxin Virulence Genes, O26, O45, O103, O111, O121, O145 and O157:H7 serogroups of Escherichia coli (STEC)* was performed through Polymerase Chain Reaction (PCR) presumptive experimentation, and confirmed through cultural methodology where applicable. Results for *Salmonella spp.* and STEC are represented as a negative or positive determination, a negative result indicating no detection of the respective contaminant.

Total Yeast and Mold Count (TYMC)/Total Aerobic Count(TAC)/Total Coliform Count (TCC) were determined through 3M™ Petrifilm™ plating technology. The TYMC/TAC/TCC is represented as a count in colony forming units per gram (cfu/g).



Jerry Hogan --Director of Operations

2022-01-12

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Manifest: 2201050007
Sample Type: Infused (edible)
Test Performed: Microbial Lab
Client Id: CID-50200
Client: Happy Fruit LLC
Address: 6500 S Quebec St, Unit 280, Centennial, CO 80111

Report No: M-2201050007-V1
Receive Date: 2022-01-05
Test Date: 2022-01-05
Report Date: 2022-01-12
Sample Condition: Good
Method Reference: MBH-OP-02, MBH-OP-03, MBH-OP-05

Sample Id	Product	Salmonella spp.	STEC	TYMC (cfu/g)
1A-GHEMP-2201050007-0004	Blueberry Dream N01455	Negative	Negative	NT

STEC - shiga toxin-producing *Escherichia coli*; TYMC - total yeast and mold count;
TAC - Total Aerobic Count; TCC - Total Coliform Count;

Laboratory Comments:

NT = Not Tested

Jerry Hogan - Director of Operations

2022-01-12

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