

Manifest: 2111160003
Sample Id: 1A-GHEMP-2111160003-0009
Sample Name: Reefer's Bay HHC Vape - Lemon Crush - 211110-RBHHCLC
Sample Type: Concentrate
Client Id: CID-50240
Client: Reefer's Bay
Address: 8500 E 116th St, 443, Fishers, IN 46038

Test Performed: Hemp Lab
Report No: R-2111160003-V1
Receive Date: 2021-11-16
Test Date: 2021-11-18
Report Date: 2021-11-19
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	ND
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:



Jon Person Client Relations Manager

2021-11-19

Date

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• Wheat Ridge CO 80033 •
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• (303) 955-4934 •



Manifest: 2111160003
Sample Type: Concentrate
Test Performed: Microbial Lab
Client Id: CID-50240
Client: Reefer's Bay
Address: 8500 E 116th St, 443, Fishers, IN 46038

Report No: M-2111160003-V1
Receive Date: 2021-11-16
Test Date: 2021-11-16
Report Date: 2021-11-23
Sample Condition: Good
Method Reference: MBH-OP-02, MBH-OP-03,
MBH-OP-05 , MBH-OP-10,
MBH-OP-11

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

2021-11-23

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Manifest: 2111160003
Sample Type: Concentrate
Test Performed: Microbial Lab
Client Id: CID-50240
Client: Reefer's Bay
Address: 8500 E 116th St, 443, Fishers, IN 46038

Report No: M-2111160003-V1
Receive Date: 2021-11-16
Test Date: 2021-11-16
Report Date: 2021-11-23
Sample Condition: Good
Method Reference: MBH-OP-02, MBH-OP-03,
MBH-OP-05, MBH-OP-10,
MBH-OP-11

Sample Id	Product	Salmonella spp.	STEC	TYMC (cfu/g)	TAC (cfu/g)	TCC (cfu/g)
1A-GHEMP-2111160003-0009	Reefer's Bay HHC Vape - Lemon Crush - 211110-RBHHCLC	Negative	Negative	<100	<100	<100

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

Laboratory Comments:



Jerry Hogan - Director of Operations

2021-11-23

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Manifest: 2111160003
Sample Id: 1A-GHEMP-2111160003-0009
Sample Name: Reefer's Bay HHC Vape - Lemon Crush - 211110-RBHHCLC
Sample Type: Concentrate
Client Id: CID-50240
Client: Reefer's Bay
Address: 8500 E 116th St, 443, Fishers, IN 46038

Test Performed: Hemp Lab
Report No: R-2111160003-V1
Receive Date: 2021-11-16
Test Date: 2021-11-22
Report Date: 2021-11-23
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	0.005	ND
Aflatoxin G1	0.0011	0.0050	0.005	ND
Aflatoxin B2	0.0017	0.0050	0.005	ND
Aflatoxin B1	0.0015	0.0050	0.005	ND
Ochratoxin A	0.0033	0.0050	0.020	ND

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

Laboratory Comments:



2021-11-23

Jon Person Client Relations Manager

Date

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Manifest: 2111160003
Sample Id: 1A-GHEMP-2111160003-0009
Sample Name: Reefer's Bay HHC Vape - Lemon Crush - 211110-RBHHCLC
Sample Type: Concentrate
Client Id: CID-50240
Client: Reefer's Bay
Address: 8500 E 116th St, 443, Fishers, IN 46038

Test Performed: Hemp Lab
Intended Use: Inhaled or Audited Product
Report No: MT-2111160003-V2
Receive Date: 2021-11-16
Test Date: 2021-11-23
Report Date: 2021-11-24
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	Sample Reporting Limit (ppm)	Parts Per Million (ppm)
Arsenic	0.500	ND
Cadmium	0.100	ND
Lead	0.100	ND
Mercury	0.100	ND

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

Laboratory Comments:
Sample sent to third-party lab for analysis.



Jon Person Client Relations Manager

2021-11-24

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Terpene Report - Certificate of Analysis



Manifest: 2111160003
Sample Id: 1A-GHEMP-2111160003-0009
Sample Name: Reefer's Bay HHC Vape - Lemon Crush - 211110-RBHHCLC
Sample Type: Concentrate
Client Id: CID-50240
Client: Reefer's Bay
Address: 8500 E 116th St, 443, Fishers, IN 46038

Test Performed: Hemp Lab
Report No: T-2111160003-V2
Receive Date: 2021-11-16
Test Date: 2021-11-19
Report Date: 2021-11-26
Sample Condition: Good
Method Reference: GH-OP-14

Total Terpenes

1.97%

Terpene	Percent
Alpha-Pinene	0.2222
Camphene	ND
Beta-Pinene	0.1033
Beta-Myrcene	0.3857
Delta-3-Carene	ND
Alpha-Terpinene	ND
Limonene	0.5162
Alpha-Ocimene	ND
Eucalyptol	ND
Beta-Ocimene	0.0572
Gamma-Terpinene	ND

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

Terpene	Percent
Terpinolene	0.0140
Linalool	0.1554
(-)-Isopulegol	ND
Geraniol	ND
Beta-Caryophyllene	0.3726
Alpha-Humulene	0.1143
cis-Nerolidol	0.0336
trans-Nerolidol	ND
(-)-Guaiol	ND
(-)-Caryophyllene Oxide	ND
Alpha-Bisabolol	ND

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

Dave Wells Laboratory Manager

2021-11-26

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Pesticide Residues Report - Certificate of Analysis



Manifest: 2111160003
Sample Id: 1A-GHEMP-2111160003-0009
Sample Name: Reefer's Bay HHC Vape - Lemon Crush - 211110-RBHHCLC
Sample Type: Concentrate
Client Id: CID-50240
Client: Reefer's Bay
Address: 8500 E 116th St, 443, Fishers, IN 46038

Test Performed: Hemp Lab
Report No: PE-2111160003-V1
Receive Date: 2021-11-16
Test Date: 2021-12-02
Report Date: 2021-12-03
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
Avermectin B1a	0.1	ND
Acephate	0.1	ND
Acetamiprid	0.1	ND
Aldicarb	0.1	ND
Azoxystrobin	0.1	ND
Bifenazate	0.1	ND
Bifenthrin	0.1	ND
Boscalid	0.1	ND
Captan	0.1	ND
Carbaryl	0.1	ND
Carbofuran	0.1	ND
Chlorantraniliprole	0.1	ND
Chlordane	0.1	ND
Chlorpyrifos	0.1	ND
Clofentazine	0.1	ND
Coumaphos	0.1	ND
Baythroid (Cyfluthrin)*	0.1	NT
Cypermethrin*	0.1	NT
Dichlorvos	0.1	ND
Diazinon	0.1	ND
Dimethoate	0.1	ND
Dimethomorph*	0.1	ND
Prophos	0.1	ND
Etofenprox	0.1	ND
Etoxazole	0.1	ND
Fenhexamid	0.1	ND
Fenoxycarb	0.1	ND
Fenpyroximate	0.1	ND
Fipronil	0.1	ND
Flonicamid	0.1	ND
Fludioxonil	0.1	ND

Analyte	Reporting Level µg/g	µg/g
Hexythiazox	0.1	ND
Imazilil	0.1	ND
Imidacloprid	0.1	ND
Kresoxim Methyl	0.1	ND
Malathion	0.1	ND
Metalaxyl	0.1	ND
Methiocarb	0.1	ND
Methomyl	0.1	NT
Mevinphos*	0.1	ND
MGK-264	0.1	ND
Myclobutanil	0.1	ND
Oxamyl	0.1	ND
Paclobutrazol	0.1	ND
Pentachloronitrobenzene	0.1	ND
Permethrin*	0.1	ND
Imidan(Phosmet)	0.1	ND
Piperonyl Butoxide	0.1	ND
Propiconazole	0.1	ND
Propuxor	0.1	ND
Pyrethrin*	0.1	ND
Pyridaben	0.1	ND
Spinetoram	0.1	ND
Spinosad*	0.1	ND
Spiromefesin	0.1	ND
Spirotetramat	0.1	ND
Spiroxamine	0.1	ND
Tebuconazole	0.1	ND
Thiacloprid	0.1	ND
Thiamethoxam	0.1	ND
Trifloxystrobin	0.1	ND

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

Lab Comments:

Jerry Hogan - Director of Operations

2021-12-03

Date

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Analytical Report - Certificate of Analysis



Manifest: 2111160003
Sample Id: 1A-GHEMP-2111160003-0009
Sample Name: Reefer's Bay HHC Vape - Lemon Crush - 211110-RBHHCLC
Sample Type: Concentrate
Client Id: CID-50240
Client: Reefer's Bay
Address: 8500 E 116th St, 443, Fishers, IN 46038

Test Performed: Hemp Lab
Report No: P-2111160003-V4
Receive Date: 2021-11-16
Test Date: 2021-11-18
Report Date: 2021-12-16
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	Percent	mg/gram
CBDV	ND	ND
CBDA	ND	ND
CBGA	ND	ND
CBG	ND	ND
CBD	ND	ND
THCV	ND	ND
CBN	T	T
Δ9-THC	ND	ND
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; ULOQ - limit of quantitation

	Percent	mg/gram
Total Δ9-THC	0.00	0.00
Total CBD	0.00	0.00
Total CBG	0.00	0.00
Total Cannabinoids	T	T

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

Total CBD = CBD + (CBDA x 0.877)

Total CBG = CBG + (CBGA x 0.877)

Laboratory Comments:

9R-HHC = 50.35%

9S-HHC = 42.65%

Jon Person

Jon Person Client Relations Manager

2021-12-16

Date

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