261 Mountain View Dr
Colchester, VT 05446
License #: TLAB0030
802-767-7256
info@onwardanalytics.biz

Certificate of Analysis

Client Name: X-Tract VT
License Number: MANU-0008

Sample ID: OA1435
Sample Name: Sparkling Hurricane Shooters
Sample Lot: MANU00008-91
Sample Matrix: Beverages
Date Received: 4/25/2023
Date Reported: 4/28/2023
Package Volume: 47 mL

Potency

Standard potency analysis utilizing High Performance Liquid Chromatography (HPLC; SOP-024-OA) | Test ID: #2643

Analyte	%	mg/g	mg/mL	LOD (mg/g)	LOQ (mg/g)
CBDV	ND	ND	ND	0.0008	0.0040
CBDVA	ND	ND	ND	0.0001	0.0040
THCV	ND	ND	ND	0.0016	0.0049
CBDA	ND	ND	ND	0.0002	0.0040
CBD	ND	ND	ND	0.0008	0.0040
CBG	0.0005	0.005	0.005	0.0009	0.0040
CBGA	ND	ND	ND	0.0001	0.0040
THCVA	ND	ND	ND	0.0002	0.0040
CBN	0.0014	0.014	0.015	0.0004	0.0040
CBCVA	ND	ND	ND	0.0004	0.0040
D9 THC	0.0092	0.092	0.099	0.0016	0.0049
D8 THC	0.0007	0.007	0.008	0.0012	0.0040
CBNA	ND	ND	ND	0.0002	0.0040
D10 THC	0.0023	0.023	0.025	0.0004	0.0040
CBC	ND	ND	ND	0.0003	0.0040
THCA	ND	ND	ND	0.0002	0.0040
CBCA	ND	ND	ND	0.0002	0.0040

Total Cannabinoids

	%	mg/g	mg/mL
Total THC:	0.009	0.092	0.099
Total Cannabinoids:	0.014	0.141	0.152
Unit Weight (g): 50.38			

Total theoretical THC % = (delta-9-THC%) + (THCA% * 0.877)

Callie Chapman
Lab Director
4/28/2023

Bia Diagnostics Laboratories

Office: 802-540-0148 | Fax: 802-540-0147
480 HERCULES DR. COLCHESTER, VT 05446

Certificate of Analysis

Company: X-Tract Vermont LLC
[redacted]
Customer ID: 200717-0
Grower License #: 50_2022_00000518

Sample ID: MANU008-4
Lot: N/A
Matrix: Concentrate
Date Sampled: 10/7/2022
Date Received: 10/10/2022

Report Date: 10/18/2022
Date Analyzed: 10/18/2022
Analyst: LEM
Report ID: C221010AA

Cannabinoid Summary

Cannabinoid Profile	LOQ (mg/g)	Concentration (mg/g)	Weight (%)
CBDVA	0.0005	<LOQ	<LOQ
CBDV	0.0012	<LOQ	<LOQ
CBDA	0.0008	<LOQ	<LOQ
CBGA	0.0008	<LOQ	<LOQ
CBG	0.0019	33.76	3.38
CBD	0.0019	6.50	0.65
THCV	0.0021	8.37	0.84
CBN	0.0013	17.34	1.73
Δ9-THC	0.0020	677.37	67.74
Δ8-THC	0.0019	11.37	1.14
THC-A	0.0034	<LOQ	<LOQ
CBC	0.0024	<LOQ	<LOQ
Total THC		677.37	67.74
Total CBD		6.50	0.65
Total Cannabinoids		754.71	75.47

67.74% **Total THC**	0.65% **Total CBD**
75.47% **Total Cannabinoids**	67.74% **Δ9-THC**
N/A **Percent Moisture**	1 : 0 **THC : CBD Ratio**

Cannabinoids Methodology: High Performance Liquid Chromatography (HPLC) using PerkinElmer FLEXAR™ with Photo Diode Array Detector (PDA)

Total CBD and total THC are calculated values, to account for assumed decarboxylation from the acid form (THCA or CBDA) to the neutral form, causing weight loss of the acid group. These values are calculated as follows:
Total THC = (THCA x 0.877) + Δ9-THC Total CBD = (CBDA x 0.877) + CBD
Ratio of Total CBD: Total THC Reagent Blanks: < LOQs for all analytes

LOQ = The lowest quantity that this method can reliably detect. Any cannabinoid that was not detected is assumed to be less than the stated LOQ (<LOQ).

All results reflect dry weight of material, based on % moisture of the sample.

Measurement of Uncertainty (MU): the parameter, associated with the result of a measurement, that characterizes the dispersion of the values that could reasonably be attributed to the particular quantity subject to measurement.
Δ9-THC MU = ±0.005% Total THC MU = ±0.007%

All other cannabinoid MU values are available upon request.

All moisture analysis is determined by loss-on-drying measurement using OHAUS Model MB90 Moisture Content Readers.

Certified by: Luke E.M
Luke Emerson Mason (Laboratory Director, Bia Diagnostics)

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Analyst: CF
Report ID: C221010AA

Residual Solvents Summary

Residual Solvent	LOQ (µg/g)	Results (µg/g)
1,2-Dichloroethane	0.002	<LOQ
Benzene	0.003	<LOQ
Chloroform	0.006	<LOQ
Methylene Chloride	0.005	<LOQ
Trichloroethylene	0.001	<LOQ
Acetone	0.005	<LOQ
Acetonitrile	0.002	<LOQ
Propane	0.005	<LOQ
Butane	24.000	<LOQ
Ethanol	0.036	<LOQ
Ethyl acetate	0.014	<LOQ
Ethyl Ether	0.225	<LOQ
Heptane	1.500	<LOQ
Hexane	0.023	<LOQ
Isopropyl Alcohol	0.018	<LOQ
Methanol	0.009	<LOQ
Pentane	22.500	<LOQ
Toluene	0.005	<LOQ
Total Xylenes	0.011	<LOQ

LOQ = The lowest quantity that this method can reliably detect. Any residual solvent that was not detected is assumed to be less than the stated LOQ (<LOQ).

Residual Solvent Methodology: Headspace Sampler, Gas Chromatography-Mass Spectrometry (GC-MS), using Perkin Elmer Clarus® SQ8 GC MS

Reagent Blanks: < LOQs for all analytes

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Certificate of Analysis

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Grower License #: 50_2022_00000518

Sample ID: MANU008-4
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Report Date: 10/24/2022
Date Analyzed: 10/17/2022
Analyst: KAC
Report ID: C221010AA

Pesticides/Mycotoxins Summary

Category II Residual Pesticide	LOQ (ppb)	Concentration (ppb)
Abamectin	10.0	<LOQ
Acephate	1.0	<LOQ
Acequinocyl	1.0	<LOQ
Azoxystrobin	1.0	<LOQ
Bifenazate	1.0	<LOQ
Bifenthrin	1.0	<LOQ
Carbaryl	1.0	<LOQ
Cypermethrin	10.0	<LOQ
Etoxazole	1.0	<LOQ
Imidacloprid	1.0	<LOQ
Myclobutanil	1.0	<LOQ
Pyrethrin I	1.0	<LOQ
Pyrethrin II	1.0	<LOQ
Spinosyn A	1.0	<LOQ
Spinosyn D	1.0	<LOQ

Category II Mycotoxin	LOQ (ppb)	Concentration (ppb)
Ochratoxin A	2.0	NOT TESTED
Aflatoxin B1	0.2	NOT TESTED
Alfatoxin B2	1.0	NOT TESTED
Alfatoxin G1	0.2	NOT TESTED
Alfatoxin G2	1.0	NOT TESTED

Category I Residual Pesticide	LOQ (ppb)	Concentration (ppb)
Chlorpyrifos	1.0	<LOQ
Imazalil	1.0	<LOQ

N/A

Percent Moisture

LOQ = The lowest quantity this method can reliably detect. Any pesticide or mycotoxins that was not detected is assumed to be less than the stated LOQ (<LOQ).

All results reflect dry weight of material, based on % moisture of the sample.

ppb = parts per billion

Pesticides/Mycotoxin Methodology: Liquid Chromatography with Tandem Mass Spectrometry using PerkinElme QSight® LX50 UHPLC and QSight 220 Mass Spectrometer

All moisture analysis is determined by loss-on-drying measurement using OHAUS Model MB90 Moisture Content Readers.

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Analyst: RS
Report ID: C221010AA

Pathogen Summary

Target Pathogens	Method	LOD (cfu/g)	Result (cfu/g)
Aspergillus - flavus, fumigatus, niger, terreus	Aspergillus AOAC PTM No. 032104	5	<LOD
STEC	STEC Virx AOAC PTM No. 121203	5	<LOD
Salmonella spp.	Salmonella II AOAC PTM No. 010803	5	<LOD

Test Methodology: Bio-Rad IQ-Check PCR Kits

cfu/g = colony forming units per gram

LOD = The lowest quantity that this method can reliably detect. Any microbial growth that was not detected is assumed to be less than the stated LOD (<LOD).

Reagent Blanks: <LOD for all analytes

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Date Analyzed: 10/24/2022
Analyst: HEM
Report ID: C221010AA

Heavy Metal Summary

Heavy Metal Profile	LOQ (ppm)	Concentration (ppm)
Arsenic (As)	0.0001	0.002
Cadmium (Cd)	0.0001	<LOQ
Mercury (Hg)	0.0001	<LOQ
Lead (Pb)	0.0001	0.001

N/A

Percent Moisture

Heavy Metal Methodology: ICP-MS using PerkinElmer NexION® 2000 ICP Mass Spectrometer

Reagent Blanks: < LOQs for all analytes

ppm = parts per million

LOQ = The lowest quantity that this method can reliably detect. Any heavy metal that was not detected is assumed to be less than the stated LOQ (<LOQ).

All results reflect dry weight of material, based on % moisture of the sample.

All moisture analysis is determined by loss-on-drying measurement using OHAUS Model MB90 Moisture Content Readers.

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