

Certificate of Analysis

Company: Theory Wellness of VT
 768 Putney Rd
 Brattleboro, VT 05301

Sample ID: Vape Oil - Distillate - MAC

Lot: N/A

Report Date: 6/19/2023

Customer ID: 230609-0

Matrix: Oil

Date Analyzed: 6/15/2023

Date Sampled: 6/9/2023

Analyst: 011

Grower License #: MANU0054

Date Received: 6/9/2023

Report ID: C230609BQ

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	41.36	4.14
CBD	0.0019	1.47	0.15
THCV	0.0021	3.57	0.36
CBN	0.0013	8.95	0.90
$\Delta 9$ -THC	0.0020	848.27	84.83
$\Delta 8$ -THC	0.0019	<LOQ	<LOQ
THC-A	0.0034	3.86	0.39
CBC	0.0024	22.66	2.27
Total THC		851.66	85.17
Total CBD		1.47	0.15
Total Cannabinoids		930.15	93.01

85.17%

Total THC

0.15%

Total CBD

93.01%

**Total
Cannabinoids**

84.83%

$\Delta 9$ -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) + $\Delta 9$ -THC Total CBD = (CBDA x 0.877) + CBD
 Ratio of Total CBD: Total THC Reagent Blanks: < LOQs for all analytes

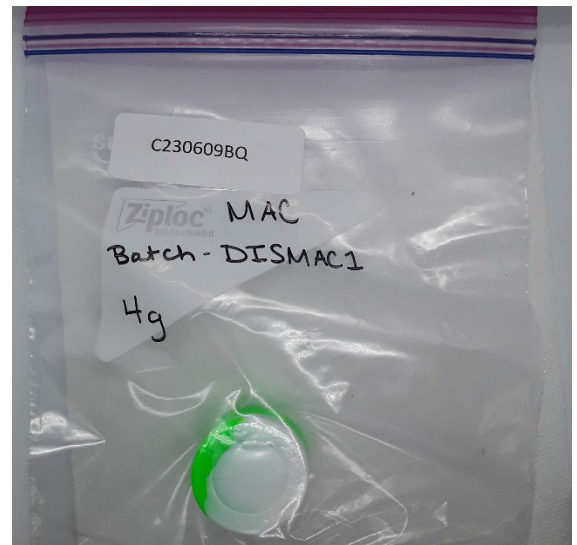
LOQ = The lowest quantity that this method can reliably detect. Any cannabinoid that was not detected is assumed to be less than the stated LOQ (<LOQ).

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.
 $\Delta 9$ -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.



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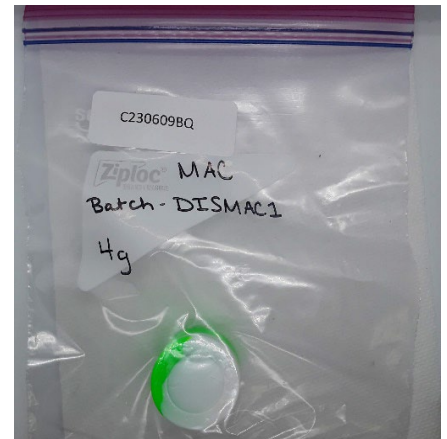
Certified by: *Luke E. M.*
 Luke Emerson Mason (Laboratory Director, Bia Diagnostics)

Certificate of Analysis

Company: Theory Wellness of VT 768 Putney Rd Brattleboro, VT 05301 Customer ID: 230609-0 Grower License #: MANU0054	Sample ID: Vape Oil - Distillate - MAC Lot: N/A Matrix: Oil Date Sampled: 6/9/2023 Date Received: 6/9/2023	Report Date: 6/19/2023 Date Analyzed: 6/15/2023 Analyst: 048 Report ID: C230609BQ
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Heavy Metal Summary

Heavy Metal Profile	LOQ (ppm)	Concentration (ppm)
Arsenic (As)	0.0001	0.0010
Cadmium (Cd)	0.0001	<LOQ
Mercury (Hg)	0.0001	<LOQ
Lead (Pb)	0.0001	0.0060



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).

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Matrix: Oil

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Date Analyzed: 6/13/2023

Customer ID: 230609-0

Date Sampled: 6/9/2023

Analyst: 045

Grower License #: MANU0054

Date Received: 6/9/2023

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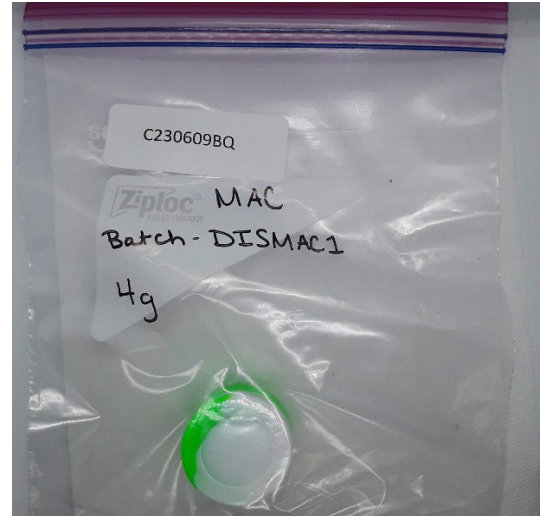
Pesticides/Mycotoxins Summary

Category II Residual Pesticide	LOQ (ppm)	Concentration (ppm)
Abamectin	0.0100	<LOQ
Acephate	0.0010	<LOQ
Acequinocyl	0.0010	<LOQ
Azoxystrobin	0.0010	<LOQ
Bifenazate	0.0010	<LOQ
Bifenthrin	0.0010	<LOQ
Carbaryl	0.0010	<LOQ
Cypermethrin	0.0100	<LOQ
Etoxazole	0.0010	<LOQ
Imidacloprid	0.0010	<LOQ
Myclobutanil	0.0010	<LOQ
Pyrethrin I	0.0010	<LOQ
Pyrethrin II	0.0010	<LOQ
Spinosyn A	0.0010	<LOQ
Spinosyn D	0.0010	<LOQ

Category II Mycotoxin	LOQ (ppm)	Concentration (ppm)
Ochratoxin A	0.0020	NOT TESTED
Aflatoxin B1	0.0002	NOT TESTED
Alfatoxin B2	0.0010	NOT TESTED
Alfatoxin G1	0.0002	NOT TESTED
Alfatoxin G2	0.0010	NOT TESTED

Category I Residual Pesticide	LOQ (ppm)	Concentration (ppm)
Chlorpyrifos	0.0010	<LOQ
Imazalil	0.0010	<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

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Analyst: 035

Grower License #: MANU0054

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Report ID: C230609BQ

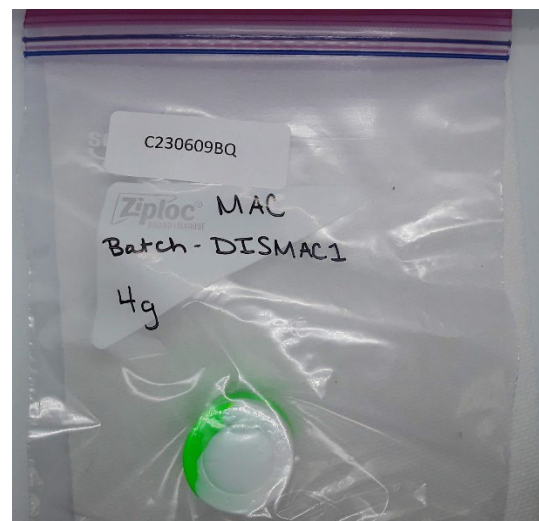
Residual Solvents Summary

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	45.46
Acetonitrile	0.002	<LOQ
Propane	0.005	<LOQ
Butane	24.000	<LOQ
Ethanol	0.036	387.8
Ethyl acetate	0.014	<LOQ
Ethyl Ether	0.225	<LOQ
Heptane	1.500	<LOQ
Hexane	0.023	1.47
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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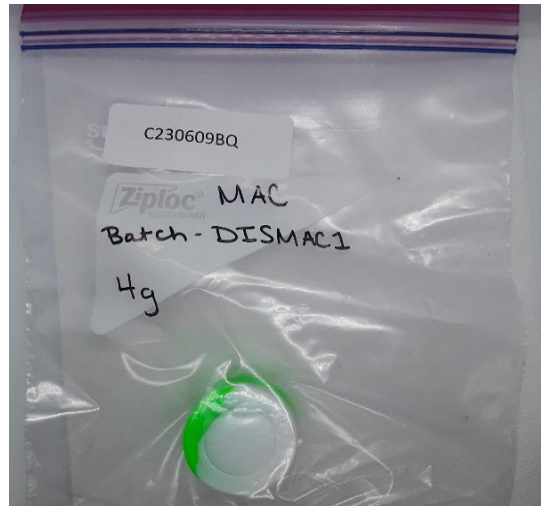
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Pathogen Summary

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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