

Company: Theory Wellness of VT

768 Putney Rd

Brattleboro, VT 05301

Certificate of Analysis

Sample ID: Vape Oil - Distillate - Jack Herer

Lot: 0054-DISJAHE1

Matrix: Distillate
Date Sampled: N/A

Report Date: 11/27/2023 Date Analyzed: 11/22/2023 Analyst: 011 Report ID: C231107AR

Customer ID: 230609-0 Grower License #: MANU0054

Date Received: 11/7/2023 Cannabinoid Summary

Cannabinoid Profile	LOQ (mg/g)	Concentration (mg/g) Weight (S	
CBDVA	0.0005	<loq< th=""><th><loq< th=""></loq<></th></loq<>	<loq< th=""></loq<>
CBDV	0.0012	<loq< th=""><th><loq< th=""></loq<></th></loq<>	<loq< th=""></loq<>
CBDA	0.0008	<loq< th=""><th><loq< th=""></loq<></th></loq<>	<loq< th=""></loq<>
CBGA	0.0008	<loq< th=""><th><loq< th=""></loq<></th></loq<>	<loq< th=""></loq<>
CBG	0.0019	16.95	1.69
CBD	0.0019	<loq< th=""><th><loq< th=""></loq<></th></loq<>	<loq< th=""></loq<>
тнсv	0.0021	3.55	0.35
CBN	0.0013	10.02	1.00
Δ9-ΤΗϹ	0.0020	685.37	68.54
Δ8-THC	0.0019	<loq< th=""><th><loq< th=""></loq<></th></loq<>	<loq< th=""></loq<>
THC-A	0.0034	11.24	1.12
СВС	0.0024	10.31	1.03
Total THC		695.23	69.52
Total CBD		<loq< th=""><th><loq< th=""></loq<></th></loq<>	<loq< th=""></loq<>
Total Cannabinoids		737.43	73.74

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) + Δ 9-THC 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.

 $\label{eq:measurement} \begin{array}{ll} \mbox{Measurement of Uncertainty (MU): the parameter, associated with the result of a measurement, that characterizes the dispersion of the values that could reasonably be attributed to the particular quantity subject to measurement. \\ \mbox{$\Delta 9$-THC MU = $\pm 0.005\%$} Total THC MU = $\pm 0.007\%$}$

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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	69.52%		<loq< td=""></loq<>
	Total THC		Total CBD
-			
	73.74%		68.54%
	Total Cannabinoids		Δ9-ТНС
		•	
	N/A		N/A
	Percent		THC : CBD
	Moisture		Ratio



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Luke Emerson Mason (Laboratory Director, Bia Diagnostics)

(802) 540-0148 laboratory@biadiagnostics.com Certificate Registration Number: CL_50_2021_002



Company: Theory Wellness of VT 768 Putney Rd Brattleboro, VT 05301 Customer ID: 230609-0 Grower License #: MANU0054 Sample ID: Vape Oil - Distillate - Jack Herer Lot: 0054-DISJAHE1 Matrix: Distillate Date Sampled: N/A Date Received: 11/7/2023

Report Date: 12/1/2023 Date Analyzed: 11/30/2023 Analyst: 048 Report ID: C231107AR

Terpenes Summary

Terpene	LOQ (mg/g)	Results (mg/g)	Weight (%)
α- Pinene	0.010	2.866	0.287
Camphene	0.010	0.241	0.024
β-Myrcene	0.010	6.664	0.666
b-Pinene	0.010	4.374	0.437
3-Carene	0.010	0.992	0.099
α-Terpinene	0.010	1.274	0.127
Limonene	0.010	1.310	0.131
ρ-Cymene	0.010	<loq< th=""><th><loq< th=""></loq<></th></loq<>	<loq< th=""></loq<>
Ocimene	0.010	1.052	0.105
Eucalyptol	0.010	1.181	0.118
Y-Terpinene	0.010	0.957	0.096
Terpinolene	0.010	<loq< th=""><th><loq< th=""></loq<></th></loq<>	<loq< th=""></loq<>
Linalool	0.010	4.671	0.467
Isopulegol	0.010	<loq< th=""><th><loq< th=""></loq<></th></loq<>	<loq< th=""></loq<>
Geraniol	0.010	0.027	0.003
Caryophyllene	0.010	4.417	0.442
α-Humulene	0.010	1.663	0.166
Trans-Nerolidol	0.010	<loq< th=""><th><loq< th=""></loq<></th></loq<>	<loq< th=""></loq<>
Cis-Nerolidol	0.010	<loq< th=""><th><loq< th=""></loq<></th></loq<>	<loq< th=""></loq<>
Guaiol	0.010	0.027	0.003
Caryophyllene Oxide	0.010	<loq< th=""><th><loq< th=""></loq<></th></loq<>	<loq< th=""></loq<>
α-Bisabolol	0.010	0.013	0.001
Total Terpene	S	31.729	3.172

N/A Percent Moisture LOQ = The lowest quantity this method can reliably detect. Any terpene that was not detected is assumed to be less than the stated LOQ (<LOQ).

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

Reagent Blanks: < LOQs for all analytes

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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Luke Emerson Mason (Laboratory Director, Bia Diagnostics)



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Report Date: 11/30/2023 Date Analyzed: 11/30/2023 Analyst: 018 Report ID: C231107AR

Pathogen Summary

Target Pathogens	Method	LOD (cfu/g)	Result (cfu/g)
Aspergillus - flavus, fumigatus, niger, terreus	Aspergillus AOAC PTM No. 032104	5	<lod< td=""></lod<>
STEC	STEC Virx AOAC PTM No. 121203	5	<lod< td=""></lod<>
Salmonella spp.	Salmonella II AOAC PTM No. 010803	5	<lod< td=""></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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Report Date: 12/1/2023 Date Analyzed: 11/29/2023 Analyst: 048 Report ID: C231107AR

Residual Solvents Summary

Residual Solvent	LOQ (µg/g)	Results (μg/g)
Benzene	0.20	<loq< th=""></loq<>
Chloroform	6.00	<loq< th=""></loq<>
Methylene Chloride	500.00	<loq< th=""></loq<>
Trichloroethylene	500.00	<loq< th=""></loq<>
Acetone	40.00	<loq< th=""></loq<>
Acetonitrile	500.00	<loq< th=""></loq<>
Propane	500.00	<loq< th=""></loq<>
Butane	500.00	<loq< th=""></loq<>
Ethanol	500.00	<loq< th=""></loq<>
Ethyl acetate	500.00	<loq< th=""></loq<>
Ethyl Ether	500.00	<loq< th=""></loq<>
Heptane	500.00	<loq< th=""></loq<>
Hexane	30.00	<loq< th=""></loq<>
Isopropyl Alcohol	500.00	<loq< th=""></loq<>
Methanol	300.00	<loq< th=""></loq<>
Pentane	500.00	<loq< th=""></loq<>
Toluene	90.00	<loq< th=""></loq<>
Total Xylenes	200.00	<loq< th=""></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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Office: 802-540-0148 | Fax: 802-540-0147 480 HERCULES DR. COLCHESTER, VT 05446

Certificate of Analysis

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Report Date: 11/22/2023 Date Analyzed: 11/22/2023 Analyst: 048 Report ID: C231107AR

Heavy Metal Summary

Heavy Metal Profile	LOQ (ppm)	Concentration (ppm)
Arsenic (As)	0.0001	0.0050
Cadmium (Cd)	0.0001	<loq< th=""></loq<>
Mercury (Hg)	0.0001	<loq< th=""></loq<>
Lead (Pb)	0.0001	0.0080



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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Lot: 0054-DISJAHE1 Matrix: Distillate Date Sampled: N/A Date Received: 11/7/2023

Report Date: 11/27/2023 Date Analyzed: 11/21/2023 Analyst: 045 Report ID: C231107AR

Pesticides/Mycotoxins Summary

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