

Company: Theory Wellness of VT

768 Putney Rd

Brattleboro, VT 05301

# **Certificate of Analysis**

Sample ID: Vape Oil - Distillate - Raspberry Parfait

Lot: 0054-DISRAPA1

Matrix: Distillate Date Sampled: N/A

Date Received: 11/7/2023

Report Date: 11/27/2023 Date Analyzed: 11/22/2023 Analyst: 011 Report ID: C231107AV

Customer ID: 230609-0 Grower License #: MANU0054

**Cannabinoid Summary** 

Cannabinoid Profile	LOQ (mg/g)	Concentration (mg/g)	Weight (%)
CBDVA	0.0005	<loq< th=""><th><lod< th=""></lod<></th></loq<>	<lod< th=""></lod<>
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	16.99	1.70
CBD	0.0019	<loq< th=""><th><loq< th=""></loq<></th></loq<>	<loq< th=""></loq<>
тнсv	0.0021	3.65	0.36
CBN	0.0013	10.57	1.06
Δ9-ТНС	0.0020	674.62 67.4	
Δ8-THC	0.0019	<loq <lo<="" th=""></loq>	
THC-A	0.0034	10.76 1.08	
СВС	0.0024	11.02 1.10	
Total THC		684.06	68.41
Total CBD		<loq< th=""><th><loq< th=""></loq<></th></loq<>	<loq< th=""></loq<>
Total Cannabir	Total Cannabinoids		72.76

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 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).

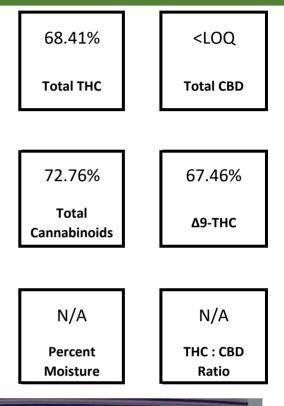
All results reflect dry weight of material, based on % moisture of the sample.

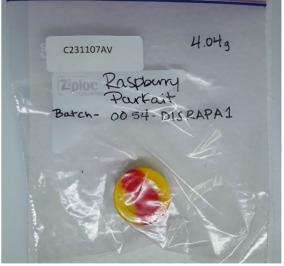
 $\label{eq:measurement} \begin{array}{ll} \mbox{Measurement of Uncertainty (MU): the parameter, associated with the result of a measurement, that characterizes the dispersion of the values that could reasonably be attributed to the particular quantity subject to measurement. \\ \mbox{$\Delta 9$-THC MU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

This report shall not be reproduced except in full without approval of the laboratory. This is to provide assurance that parts of a report are not taken out of context. Results apply to the *Certified by:* samples as received.





Lube F.M

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 - Raspberry Parfait Lot: 0054-DISRAPA1 Rep Matrix: Distillate Date Date Sampled: N/A Date Received: 11/7/2023

Report Date: 12/1/2023 Date Analyzed: 11/30/2023 Analyst: 048 Report ID: C231107AV

#### **Terpenes Summary**

Terpene	LOQ (mg/g)	Results (mg/g)	Weight (%)
α- Pinene	0.010	9.441	0.944
Camphene	0.010	0.708	0.071
β-Myrcene	0.010	7.804	0.780
b-Pinene	0.010	8.709	0.871
3-Carene	0.010	1.088	0.109
α-Terpinene	0.010	<loq< th=""><th><loq< th=""></loq<></th></loq<>	<loq< th=""></loq<>
Limonene	0.010	12.993	1.299
ρ-Cymene	0.010	<loq< th=""><th><loq< th=""></loq<></th></loq<>	<loq< th=""></loq<>
Ocimene	0.010	8.743	0.874
Eucalyptol	0.010	0.611	0.061
Y-Terpinene	0.010	0.271	0.027
Terpinolene	0.010	3.448	0.345
Linalool	0.010	5.638	0.564
Isopulegol	0.010	<loq< th=""><th><loq< th=""></loq<></th></loq<>	<loq< th=""></loq<>
Geraniol	0.010	0.116	0.012
Caryophyllene	0.010	7.207	0.721
α-Humulene	0.010	3.852	0.385
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	0.017	0.002
Caryophyllene Oxide	0.010	0.029	0.003
α-Bisabolol	0.010	<loq< th=""><th><loq< th=""></loq<></th></loq<>	<loq< th=""></loq<>
Total Terpene	S	70.675	7.068

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.



This report shall not be reproduced except in full without approval of the laboratory. This is to provide assurance that parts of a report are not taken out of context. Results apply to the samples as received.

Certified by:

Luke E.M.

(802) 540-0148 laboratory@biadiagnostics.com

Luke Emerson Mason (Laboratory Director, Bia Diagnostics)



Company: Theory Wellness of VT 768 Putney Rd Brattleboro, VT 05301 Customer ID: 230609-0 Grower License #: MANU0054 Sample ID: Vape Oil - Distillate - Raspberry Parfait Lot: 0054-DISRAPA1 Matrix: Distillate Date Sampled: N/A Date Received: 11/7/2023

Report Date: 11/30/2023 Date Analyzed: 11/30/2023 Analyst: 018 Report ID: C231107AV

#### **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

This report shall not be reproduced except in full without approval of the laboratory. This is to provide assurance that parts of a report are not taken out of context. Results apply to the samples as received.

Certified by: \_\_\_\_\_

Luke E.M.

Luke Emerson Mason (Laboratory Director, Bia Diagnostics)

(802) 540-0148 laboratory@biadiagnostics.com



Company: Theory Wellness of VT 768 Putney Rd Brattleboro, VT 05301 Customer ID: 230609-0 Grower License #: MANU0054 Sample ID: Vape Oil - Distillate - Raspberry ParfaitLot: 0054-DISRAPA1RepoMatrix: DistillateDate AnDate Sampled: N/ADate Received: 11/7/2023

Report Date: 12/1/2023 Date Analyzed: 11/29/2023 Analyst: 048 Report ID: C231107AV

## **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<sup>®</sup> SQ8 GC MS

Reagent Blanks: < LOQs for all analytes



This report shall not be reproduced except in full without approval of the laboratory. This is to provide assurance that parts of a report are not taken out of context. Results apply to the samples as received.

Luke E.M

Luke Emerson Mason (Laboratory Director, Bia Diagnostics)

(802) 540-0148 laboratory@biadiagnostics.com

Certified by:



Company: Theory Wellness of VT 768 Putney Rd Brattleboro, VT 05301 Customer ID: 230609-0 Grower License #: MANU0054 Sample ID: Vape Oil - Distillate - Raspberry ParfaitLot: 0054-DISRAPA1RMatrix: DistillateDateDate Sampled: N/ADate Received: 11/7/2023

Report Date: 11/22/2023 Date Analyzed: 11/22/2023 Analyst: 048 Report ID: C231107AV

Heavy Metal Summary

Heavy Metal Profile	LOQ (ppm)	Concentration (ppm)
Arsenic (As)	0.0001	0.0060
Cadmium (Cd)	0.0001	<loq< th=""></loq<>
Mercury (Hg)	0.0001	<loq< th=""></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).

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.

This report shall not be reproduced except in full without approval of the laboratory. This is to provide assurance that parts of a report are not taken out of context. Results apply to the *Certified by:* samples as received.

Luke E.M.

Luke Emerson Mason (Laboratory Director, Bia Diagnostics)



Company: Theory Wellness of VT 768 Putney Rd Brattleboro, VT 05301 Customer ID: 230609-0 Grower License #: MANU0054 Sample ID:Vape Oil - Distillate - Raspberry ParfaitLot:0054-DISRAPA1RepMatrix:DistillateDate ADate Sampled:N/ARepDate Received:11/7/2023R

Report Date: 11/27/2023 Date Analyzed: 11/21/2023 Analyst: 045 Report ID: C231107AV

## 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.

Luke E.M.

Luke Emerson Mason (Laboratory Director, Bia Diagnostics)

This report shall not be reproduced except in full without approval of the laboratory. This is to provide assurance that parts of a report are not taken out of context. Results apply to the samples as received.

Certified by:

(802) 540-0148 laboratory@biadiagnostics.com