4131 SW 47th AVENUE SUITE 1408
DAVIE, FL, 33314, US

Kaycha Labs

THC Trainwreck Vape
Trainwreck
Matrix: Derivative

Certificate of Analysis

Sample:DA91216010-002
Harvest/Lot ID: HS-TVF1216201902
Cultivation Facility: Miami Cultivation
Processing Facility : Homestead Processing
Seed to Sale #5157 0681 4765 3785
Batch Date :N/A
Batch#: HS-TVF1216201902
Sample Size Received: 7 gram
Total Weight/Volume: 1848 gram
Retail Product Size: 0.5 gram gram
Ordered : 12/16/19
sampled : 12/16/19
Completed: 12/18/19
Sampling Method: SOP Client Method

Dec 18, 2019 | CURALEAF FLORIDA LLC

19000 SW 192 STREET
MIAMI, FL, 33187, US

PASSED

PRODUCT IMAGE

SAFETY RESULTS

Pesticides	Heavy Metals	Microbials	Mycotoxins	Residuals Solvents	Filth	Water Activity	Moisture
PASSED	PASSED	PASSED	PASSED	PASSED	PASSED	NOT TESTED	NOT TESTED

MISC.

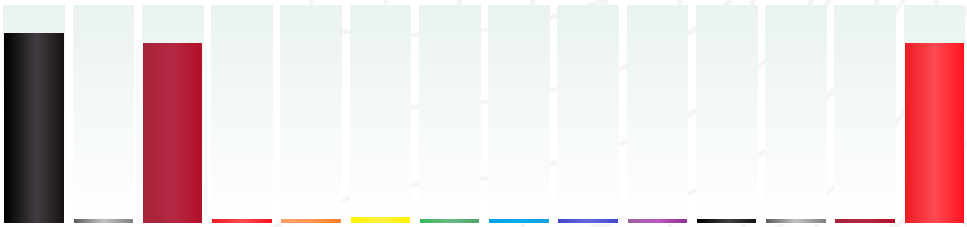
Terpenes
TESTED

CANNABINOID RESULTS

Total THC
87.940%
THC/Container :439.70 mg

Total CBD
0.118%
CBD/Container :0.59 mg

Total Cannabinoids
92.216%
Total Cannabinoids / Container :0.000



	TOTAL CA	TOTAL CB	TOTAL TH	CBC	CBGA	CBG	THCV	D8-THC	CBDV	CBN	CBDA	CBD	THCA	D9-THC
%	92.2159	0.1180	87.9400	0.9870	ND	1.6830	0.5160	0.2390	ND	0.6100	ND	0.1180	1.0000	87.0630
mg/g	922.1600	1.1800	879.4000	9.8699	ND	16.8299	5.1600	2.3900	ND	6.1000	ND	1.1800	10.0000	870.6300
LOD	0.0000 %	0.0010 %	0.0010 %	0.0010 %	0.0010 %	0.0010 %	0.0010 %	0.0010 %	0.0010 %	0.0010 %	0.0010 %	0.0001 %	0.0010 %	0.0001 %

Filth — PASSED

Analyzed By	Weight	Extraction date	Extracted By
584	1g	12/16/19	584

Analyte Filth and Foreign Material — **LOD** 0 — **Result** ND
Analysis Method -SOP.T.40.013 — **Batch Date :**
Analytical Batch -DA008756FIL
Instrument Used :

This includes but is not limited to hair, insects, feces, packaging contaminants, and manufacturing waste and by-products. An SH-2B/T Stereo Microscope is use for inspection.

Cannabinoid Profile Test

Analyzed by	Weight	Extraction date :	Extracted By :
1224	0.1030g	12/16/19 11:12:06	965

Analysis Method -SOP.T.40.020, SOP.T.30.050 — **Batch Date :**
Analytical Batch -DA008755POT — **Instrument Used :**

Reagent	Dilution	Consums. ID
121219.R07	400	76124-662 SFN-BX-1025 849C4-849AK 840C6-840H

Full spectrum cannabinoid analysis utilizing High Performance Liquid Chromatography with UV detection (HPLC-UV). (Method: SOP.T.30.050 for sample prep and Shimadzu High Sensitivity Method SOP.T.40.020 for analysis. LOQ for all cannabinoids is 1 mg/L).

Jorge Segredo
Lab Director

State License # CMTL-0002
ISO Accreditation # ISO/IEC 17025:2017 Accreditation PJLA-Testing 97164

Signature

12/18/19
Signed On

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DAVIE, FL, 33314, US

Kaycha Labs
THC Trainwreck Vape
Trainwreck
Matrix : Derivative

Certificate of Analysis

PASSED

19000 SW 192 STREET
MIAMI, FL, 33187, US
Telephone: 7865860672
Email: erick.ramirez@curaleaf.com

Sample : DA91216010-002
Harvest/LOT ID: HS-TVF1216201902

Batch# : HS-TVF1216201902
Sampled : 12/16/19
Ordered : 12/16/19

Sample Size Received : 7 gram
Total Weight/Volume : 1848 gram
Completed : 12/18/19 **Expires:** 12/18/20
Sample Method : SOP Client Method

Terpenes

TESTED

Terpenes	LOD(%)	mg/g	%	Result (%)
ALPHA-CEDRENE	0.007	ND	ND	
ALPHA-HUMULENE	0.007	12.912	1.291	
ALPHA-PINENE	0.007	9.337	0.933	
ALPHA-TERPINENE	0.007	ND	ND	
BETA-MYRCENE	0.007	8.784	0.878	
BETA-PINENE	0.007	0.335	0.033	
BORNEOL	0.013	ND	ND	
CAMPHENE	0.007	< 0.2	< 0.020	
CAMPHOR	0.013	ND	ND	
CARYOPHYLLENE OXIDE	0.007	0.485	0.048	
CEDROL	0.007	ND	ND	
ALPHA-BISABOLOL	0.007	0.720	0.072	
ISOPULEGOL	0.007	ND	ND	
CIS-NEROLIDOL	0.007	ND	ND	
3-CARENE	0.007	ND	ND	
FENCHYL ALCOHOL	0.007	ND	ND	
HEXAHYDROTHYMOL	0.007	ND	ND	
EUCALYPTOL	0.007	ND	ND	
ISOBORNEOL	0.007	ND	ND	
FARNESENE	0.007	ND	ND	
FENCHONE	0.007	ND	ND	
GAMMA-TERPINENE	0.007	< 0.2	< 0.020	
GERANIOL	0.007	ND	ND	
GERANYL ACETATE	0.007	ND	ND	
GUAIOL	0.007	< 0.2	< 0.020	
LIMONENE	0.007	1.679	0.167	
LINALOOL	0.007	ND	ND	
NEROL	0.007	ND	ND	
OCIMENE	0.007	ND	ND	
ALPHA-PHELLANDRENE	0.007	ND	ND	
PULEGONE	0.007	ND	ND	
Total (%)		5.508		

Terpenes	LOD(%)	mg/g	%	Result (%)
SABINENE	0.007	ND	ND	
SABINENE HYDRATE	0.007	ND	ND	
TERPINEOL	0.007	ND	ND	
TERPINOLENE	0.007	ND	ND	
BETA-CARYOPHYLLENE	0.007	20.827	2.082	
TRANS-NEROLIDOL	0.007	< 0.2	< 0.020	
VALENCENE	0.007	ND	ND	

Terpenes

TESTED

Analyzed by	Weight	Extraction date	Extracted By
1118	0.9233g	12/16/19 11:12:20	1118

Analysis Method -SOP.T.40.090
Analytical Batch -DA008733TER
Instrument Used :
Running On :
Batch Date :

Reagent	Dilution	Consums. ID
	10	

Terpenoid profile screening is performed using GC-MS with Liquid Injection (Gas Chromatography – Mass Spectrometer) which can screen 38 terpenes using Method SOP.T.40.091 Terpenoid Analysis Via GC/MS.

Jorge Segredo
Lab Director
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ISO Accreditation # ISO/IEC 17025:2017 Accreditation PJLA-Testing 97164

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Matrix : Derivative

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MIAMI, FL, 33187, US
Telephone: 7865860672
Email: erick.ramirez@curaleaf.com

Sample : DA91216010-002
Harvest/LOT ID: HS-TVF1216201902

Batch# : HS-TVF1216201902
Sampled : 12/16/19
Ordered : 12/16/19

Sample Size Received : 7 gram
Total Weight/Volume : 1848 gram
Completed : 12/18/19 **Expires:** 12/18/20
Sample Method : SOP Client Method

Pesticides

PASSED

Pesticides	LOD	Units	Action Level	Result
CHLORDANE	0.005	ppm	0.1	ND
CAPTAN	0.05	ppm	0.7	ND
BOSCALID	0.01	PPM	0.1	ND
DIMETHOATE	0.01	ppm	0.1	ND
ABAMECTIN B1A	0.02	ppm	0.1	ND
CIS-PERMETHRIN	0.05	ppm	0.1	ND
SPINETORAM	0.01	PPM	0.2	ND
ACEPHATE	0.001	ppm	0.1	ND
DIMETHOMORPH	0.005	ppm	0.2	ND
ETHOPROPHOS	0.01	ppm	0.1	ND
ACEQUINOCYL	0.01	ppm	0.1	ND
ACETAMIPRID	0.01	ppm	0.1	ND
ETOFENPROX	0.01	ppm	0.1	ND
ALDICARB	0.02	ppm	0.1	ND
ETOXAZOLE	0.01	ppm	0.1	ND
AZOXYSTROBIN	0.01	ppm	0.01	ND
FENHEXAMID	0.01	ppm	0.1	ND
BIFENAZATE	0.01	ppm	0.1	ND
FENOXYCARB	0.01	ppm	0.1	ND
FENPYROXIMATE	0.01	ppm	0.1	ND
BIFENTHRIN	0.01	ppm	0.1	ND
CARBARYL	0.01	ppm	0.5	ND
FIPRONIL	0.02	ppm	0.1	ND
FLONICAMID	0.01	ppm	0.1	ND
CARBOFURAN	0.01	ppm	0.1	ND
CHLORANTRANILIPROLE	0.01	ppm	1	ND
FLUDIOXONIL	0.01	ppm	0.1	ND
HEXYTHIAZOX	0.01	ppm	0.1	ND
CHLORFENAPYR	0.01	ppm	0.1	ND
IMAZALIL	0.01	ppm	0.1	ND
CHLORPYRIFOS	0.01	ppm	0.1	ND
IMIDACLOPRID	0.01	ppm	0.4	ND
CLOFENTEZINE	0.01	ppm	0.2	ND
KRESOXIM-METHYL	0.01	ppm	0.1	ND
COUMAPHOS	0.005	ppm	0.1	ND
MALATHION	0.01	ppm	0.2	ND
CYPERMETHRIN	0.01	ppm	0.5	ND
DAMINOZIDE	0.02	ppm	0.1	ND
METALAXYL	0.01	ppm	0.02	ND
DICHLORVOS	0.05	ppm	0.1	ND
METHIOCARB	0.01	ppm	0.05	ND
METHOMYL	0.01	ppm	0.1	ND
DIAZANON	0.01	ppm	0.1	ND
MEVINPHOS	0.01	ppm	0.1	ND
MYCLOBUTANIL	0.01	ppm	0.1	ND
NALED	0.01	ppm	0.25	ND

Pesticides	LOD	Units	Action Level	Result
OXAMYL	0.01	ppm	0.5	ND
PACLOBUTRAZOL	0.01	ppm	0.1	ND
TRANS-PERMETHRIN	0.05	ppm	0.1	ND
PHOSMET	0.01	ppm	0.1	ND
PIPERONYL BUTOXIDE	0.01	ppm	3	ND
PRALLETHRIN	0.05	ppm	0.1	ND
PROPICONAZOLE	0.01	ppm	0.1	ND
PROPOXUR	0.01	ppm	0.1	ND
PYRETHRIN I	0.01	ppm	0.5	ND
PYRIDABEN	0.01	ppm	0.2	ND
SPINOSAD (SPINOSYN A)	0.01	ppm	0.1	ND
SPINOSAD (SPINOSYN D)	0.01	ppm	0.1	ND
SPIROMESIFEN	0.01	ppm	0.1	ND
SPIROTETRAMAT	0.02	ppm	0.1	ND
SPIROXAMINE	0.01	ppm	0.1	ND
TEBUCONAZOLE	0.01	ppm	0.1	ND
THIACLOPRID	0.01	ppm	0.1	ND
THIAMETHOXAM	0.01	ppm	0.5	ND
TRIFLOXYSTROBIN	0.01	ppm	0.1	ND

Pesticides — PASSED

Analyzed by	Weight	Extraction date	Extracted By
585	0.9080g	12/16/19 12:12:55	1082

Analysis Method - SOP.T.30.065, SOP.T.40.065, SOP.T.40.066, SOP.T.40.070 , SOP.T.30.065, SOP.T40.070
Analytical Batch - DA008738PES
Instrument Used :
Running On : **Batch Date :**

Reagent	Dilution	Consums. ID

Pesticide screen is performed using LC-MS and/or GC-MS which can screen down to below single digit ppb concentrations for regulated Pesticides. Currently we analyze for 67 Pesticides. (Method: SOP.T.30.060 Sample Preparation for Pesticides Analysis via LCMSMS and GCMSMS. SOP.T40.065/SOP.T.40.066/SOP.T.40.070 Procedure for Pesticide Quantification Using LCMS and GCMS). * Volatile Pesticide screening is performed using GC-MS which can screen down to below single digit ppb concentrations for regulated Pesticides. Analytes marked with an asterisk were tested using GC-MS.

Jorge Segredo
Lab Director

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Signature

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THC Trainwreck Vape
Trainwreck
Matrix : Derivative

Certificate of Analysis

PASSED

19000 SW 192 STREET
MIAMI, FL, 33187, US
Telephone: 7865860672
Email: erick.ramirez@curaleaf.com

Sample : DA91216010-002
Harvest/LOT ID: HS-TVF1216201902

Batch# : HS-TVF1216201902
Sampled : 12/16/19
Ordered : 12/16/19

Sample Size Received : 7 gram
Total Weight/Volume : 1848 gram
Completed : 12/18/19 **Expires:** 12/18/20
Sample Method : SOP Client Method

Residual Solvents — PASSED

Solvent	LOD	Units	Action Level (PPM)	Pass/Fail	Result
PROPANE	120	ppm	2100	PASS	ND
BUTANES (N-BUTANE)	96	ppm	2000	PASS	ND
ETHYLENE OXIDE	0.6	ppm	5	PASS	ND
METHANOL	22.5	ppm	250	PASS	ND
ETHANOL	90	ppm	5000	PASS	<140.000
PENTANES (N-PENTANE)	67.5	ppm	750	PASS	ND
ETHYL ETHER	45	ppm	500	PASS	ND
ACETONE	67.5	ppm	750	PASS	ND
2-PROPANOL	45	ppm	500	PASS	ND
ACETONITRILE	5.4	ppm	60	PASS	ND
DICHLOROMETHANE	11.25	ppm	125	PASS	ND
N-HEXANE	4.5	ppm	250	PASS	ND
ETHYL ACETATE	36	ppm	400	PASS	ND
BENZENE	0.09	ppm	1	PASS	ND
HEPTANE	45	ppm	500	PASS	ND
TOLUENE	13.5	ppm	150	PASS	ND
CHLOROFORM	0.18	ppm	2	PASS	ND
1,2-DICHLOROETHANE	0.18	ppm	2	PASS	ND
TRICHLOROETHYLENE	2.25	ppm	25	PASS	ND
1,1-DICHLOROETHENE	1	ppm	8	PASS	ND
TOTAL XYLENES	13.5	ppm	150	PASS	ND

Residual Solvents — PASSED

Analyzed by	Weight	Extraction date	Extracted By
850	0.0231g	12/16/19 02:12:43	850

Analysis Method -SOP.T.40.032
Analytical Batch -DA008760SOL
Instrument Used :
Running On :
Batch Date :

Reagent	Dilution	Consums. ID
	1	

Residual solvents screening is performed using GC-MS which can detect below single digit ppm concentrations. Currently we analyze for 21 Residual solvents.(Method: SOP.T.40.032 Residual Solvents Analysis via GC-MS).

Jorge Segredo
Lab Director

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Telephone: 7865860672
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Sample : DA91216010-002
Harvest/LOT ID: HS-TVF1216201902
Batch# : HS-TVF1216201902
Sampled : 12/16/19
Ordered : 12/16/19

Sample Size Received : 7 gram
Total Weight/Volume : 1848 gram
Completed : 12/18/19 **Expires:** 12/18/20
Sample Method : SOP Client Method

Microbials — PASSED

Analyte	LOD	Result	Action Level (cfu/g)
ASPERGILLUS_FLAVUS		not present in 1 gram.	
ASPERGILLUS_FUMIGATUS		not present in 1 gram.	
ASPERGILLUS_NIGER		not present in 1 gram.	
ASPERGILLUS_TERREUS		not present in 1 gram.	
ESCHERICHIA_COLI_SHIGELLA_SPP		not present in 1 gram.	
SALMONELLA_SPECIFIC_GENE		not present in 1 gram.	
TOTAL_YEAST_AND_MOLD		not present in 1 gram.	

Analysis Method -SOP.T.40.043 / SOP.T.40.044 / SOP.T.40.041
Analytical Batch -DA008732MIC Batch Date :
Instrument Used :
Running On :

Analyzed by	Weight	Extraction date	Extracted By
513,	0.9772g	12/16/19	513,

Reagent	Consums. ID	Consums. ID
121319.R18	2802011 A02 2803021 009D 020 011	19193

Microbiological testing for Fungal and Bacterial Identification via Polymerase Chain Reaction (PCR) method consisting of sample DNA amplified via tandem Polymerase Chain Reaction (PCR) as a crude lysate which avoids purification. (Method SOP.T.40.043) If a pathogenic Escherichia Coli, Salmonella, Aspergillus fumigatus, Aspergillus flavus, Aspergillus niger, or Aspergillus terreus is detected in 1g of a sample, the sample fails the microbiological-impurity testing. Pour-plating is used for quantitation and confirmation, Total Yeast and Mold has an action limit of 100,000 CFU.

Mycotoxins — PASSED

Analyte	LOD	Units	Result	Action Level (PPM)
AFLATOXIN G2	0.002	ppm	ND	
AFLATOXIN G1	0.002	ppm	ND	
AFLATOXIN B2	0.002	ppm	ND	
AFLATOXIN B1	0.002	ppm	ND	
OCHRATOXIN A+	0.002	ppm	ND	0.02
TOTAL AFLATOXINS	0.02	PPM	ND	0.02

Analysis Method -SOP.T.30.065, SOP.T.40.065
Analytical Batch -DA008739
Instrument Used :
Running On :
Batch Date :

Analyzed by	Weight	Extraction date	Extracted By
585	1g	NA	NA

Aflatoxins B1, B2, G1, G2, and Ochratoxins A testing using LC-MS. (Method: SOP.T.30.065 for Sample Preparation and SOP.T40.065 Procedure for Mycotoxins Quantification Using LCMS. LOQ 1.0 ppb). Aflatoxin B1, B2, G1, and G2 must individually be <20ug/Kg. Ochratoxins must be <20µg/Kg.

Heavy Metals — PASSED

Reagent	Reagent	Dilution
121319.R01 121619.R01 121119.R03 121319.R05 121319.R06 120419.R02	052419.01	50

Metal	LOD	Unit	Result	Action Level (PPM)
ARSENIC	0.01	PPM	ND	0.2
CADMIUM	0.01	PPM	ND	0.2
LEAD	0.01	PPM	ND	0.5
MERCURY	0.01	PPM	ND	0.1

Analyzed by	Weight	Extraction date	Extracted By
53	0.2614g	12/16/19 04:12:14	457

Analysis Method -SOP.T.40.050, SOP.T.30.052
Analytical Batch -DA008734HEA
Instrument Used :
Running On :
Batch Date :

Heavy Metals screening is performed using ICP-MS (Inductively Coupled Plasma – Mass Spectrometer) which can screen down to below single digit ppb concentrations for regulated heavy metals using Method SOP.T.30.052 Sample Preparation for Heavy Metals Analysis via ICP-MS and SOP.T.40.050 Heavy Metals Analysis via ICP-MS.

Jorge Segredo
Lab Director
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Signature

12/18/19
Signed On