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

Kaycha Labs

THC Vape - Trainwreck
Trainwreck
Matrix: Derivative

Certificate of Analysis

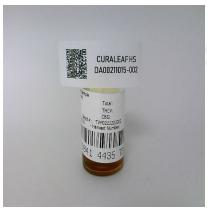
Sample:DA00211015-002
Harvest/Lot ID: HS-TVF0211202002
Cultivation Facility: Miami Cultivation
Processing Facility : Homestead Processing
Seed to Sale #1014 0841 4435 7382
Batch Date :02/11/20
Batch#: HS-TVF0211202002
Sample Size Received: 7.0
Total Weight/Volume: 2000
Retail Product Size: 0.5 gram
Ordered : 02/11/20
sampled : 02/11/20
Completed: 02/13/20
Sampling Method: SOP Client Method

Feb 13, 2020 | 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
82.719%
THC/Container :413.60 mg

Total CBD
0.724%
CBD/Container :3.62 mg

Total Cannabinoids
86.687%
Total Cannabinoids / Container :0.000

	TOTAL CA	TOTAL CB	TOTAL TH	CBC	CBGA	CBG	THCV	D8-THC	CBDV	CBN	CBDA	CBD	D9-THC	THCA
%	86.6870	0.7240	82.7189	1.0250	ND	1.4210	ND	ND	ND	0.7980	ND	0.7240	82.7189	ND
mg/g	866.8700	7.2400	827.1890	10.2500	ND	14.2100	ND	ND	ND	7.9800	ND	7.2400	827.1900	ND
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 %	0.0001 %	0.0010 %

Cannabinoid Profile Test

Analyzed by 450 | **Weight** 0.1117g | **Extraction date :** 02/11/20 12:02:54 | **Extracted By :** 574
Analysis Method -SOP.T.40.020, SOP.T.30.050
Batch Date : 02/11/20 09:38:20
Analytical Batch -DA010136POT | **Instrument Used :** DA-LC-003

Reagent	Dilution	Consums. ID
020420.R14	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).

Label Claim

PASSED

Analyte	LOD	Units	Result
THC/SERVING	10000	mg	82.719

Filth

PASSED

Analyzed By 584 | **Weight** 1g | **Extraction date** 02/11/20 | **Extracted By** 584
Analyte Filth and Foreign Material | **LOD** 0 | **Result** ND
Batch Date : 02/11/20 16:37:27
Analysis Method -SOP.T.40.013
Analytical Batch -DA010159FIL
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.

Jorge Segredo
Lab Director

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

Signature

02/13/20
Signed On

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DAVIE, FL, 33314, US

Kaycha Labs
THC Vape - Trainwreck
Trainwreck
Matrix : Derivative

Certificate of Analysis

PASSED

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

Sample : DA00211015-002
Harvest/LOT ID: HS-TVF0211202002
Batch# : HS-TVF0211202002
Sampled : 02/11/20
Ordered : 02/11/20
Sample Size Received : 7.0
Total Weight/Volume : 2000
Completed : 02/13/20 **Expires:** 02/13/21
Sample Method : SOP Client Method

Terpenes — TESTED

Terpenes	LOD(%)	mg/g	%	Result (%)
ALPHA-CEDRENE	0.007	ND	ND	
ALPHA-HUMULENE	0.007	18.023	1.802	
ALPHA-PINENE	0.007	11.250	1.125	
ALPHA-TERPINENE	0.007	ND	ND	
BETA-MYRCENE	0.007	5.035	0.503	
BETA-PINENE	0.007	0.382	0.038	
BORNEOL	0.013	ND	ND	
CAMPHENE	0.007	< 0.2	< 0.020	
CAMPHOR	0.013	ND	ND	
CARYOPHYLLENE OXIDE	0.007	0.496	0.049	
CEDROL	0.007	ND	ND	
ALPHA-BISABOLOL	0.007	0.449	0.044	
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	24.586	2.458	
TRANS-NEROLIDOL	0.007	< 0.2	< 0.020	
VALENCENE	0.007	ND	ND	
PULEGONE	0.007	ND	ND	
ALPHA-PHELLANDRENE	0.007	< 0.2	< 0.020	
OCIMENE	0.007	ND	ND	
NEROL	0.007	ND	ND	
LINALOOL	0.007	ND	ND	
LIMONENE	0.007	2.139	0.213	
GUAIOL	0.007	0.282	0.028	
GERANYL ACETATE	0.007	ND	ND	
GERANIOL	0.007	ND	ND	
GAMMA-TERPINENE	0.007	< 0.2	< 0.020	
FENCHONE	0.007	ND	ND	
FARNESENE	0.007	< 0.2	< 0.020	
Total (%)		6.264		

Terpenes	LOD(%)	mg/g	%	Result (%)
EUCALYPTOL	0.007	ND	ND	
ISOBORNEOL	0.007	ND	ND	
HEXAHYDROTHYMOL	0.007	ND	ND	
FENCHYL ALCOHOL	0.007	ND	ND	
3-CARENE	0.007	ND	ND	
CIS-NEROLIDOL	0.007	ND	ND	
ISOPULEGOL	0.007	ND	ND	

Terpenes — TESTED

Analyzed by	Weight	Extraction date	Extracted By
1351	0.8351g	02/11/20 11:02:30	1351

Analysis Method -SOP.T.40.090
Analytical Batch -DA010128TER
Instrument Used : Liquid Injection GCMS QP2020 (E-SHI-128)
Running On :
Batch Date : 02/11/20 08:48:05

Reagent	Dilution	Consums. ID
052119.04	10	1929V5454 180711

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

Signature

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THC Vape - Trainwreck
Trainwreck
Matrix : Derivative

Certificate of Analysis

PASSED

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

Sample : DA00211015-002
Harvest/LOT ID: HS-TVF0211202002

Batch# : HS-TVF0211202002
Sampled : 02/11/20
Ordered : 02/11/20

Sample Size Received : 7.0
Total Weight/Volume : 2000
Completed : 02/13/20 **Expires:** 02/13/21
Sample Method : SOP Client Method

Pesticides

PASSED

Pesticides	LOD	Units	Action Level	Result
ABAMECTIN B1A	0.02	ppm	0.1	ND
ACEPHATE	0.001	ppm	0.1	ND
ACEQUINOCYL	0.01	ppm	0.1	ND
ACETAMIPRID	0.01	ppm	0.1	ND
ALDICARB	0.02	ppm	0.1	ND
AZOXYSTROBIN	0.01	ppm	0.1	ND
BIFENAZATE	0.01	ppm	0.1	ND
BIFENTHRIN	0.01	ppm	0.1	ND
BOSCALID	0.01	PPM	0.1	ND
CARBARYL	0.01	ppm	0.5	ND
CARBOFURAN	0.01	ppm	0.1	ND
CHLORANTRANILIPROLE	0.01	ppm	1	ND
CHLORFENAPYR	0.01	ppm	0.1	ND
CHLORPYRIFOS	0.01	ppm	0.1	ND
CLOFENTEZINE	0.01	ppm	0.2	ND
COUMAPHOS	0.005	ppm	0.1	ND
CYPERMETHRIN	0.01	ppm	0.5	ND
DAMINOZIDE	0.02	ppm	0.1	ND
DIAZANON	0.01	ppm	0.1	ND
DICHLORVOS	0.05	ppm	0.1	ND
DIMETHOATE	0.01	ppm	0.1	ND
DIMETHOMORPH	0.005	ppm	0.2	ND
ETHOPROPHOS	0.01	ppm	0.1	ND
ETOFENPROX	0.01	ppm	0.1	ND
ETOXAZOLE	0.01	ppm	0.1	ND
FENHEXAMID	0.01	ppm	0.1	ND
FENOXYCARB	0.01	ppm	0.1	ND
FENPYROXIMATE	0.01	ppm	0.1	ND
FIPRONIL	0.02	ppm	0.1	ND
FLONICAMID	0.01	ppm	0.1	ND
FLUDIOXONIL	0.01	ppm	0.1	ND
HEXYTHIAZOX	0.01	ppm	0.1	ND
IMAZALIL	0.01	ppm	0.1	ND
IMIDACLOPRID	0.01	ppm	0.4	ND
KRESOXIM-METHYL	0.01	ppm	0.1	ND
MALATHION	0.01	ppm	0.2	ND
METALAXYL	0.01	ppm	0.1	ND
METHIOCARB	0.01	ppm	0.1	ND
METHOMYL	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
OXAMYL	0.01	ppm	0.5	ND
PACLOBUTRAZOL	0.01	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
PYRETHRINS	0.01	ppm	0.5	ND
PYRIDABEN	0.01	ppm	0.2	ND
SPINETORAM	0.01	PPM	0.2	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
TOTAL CONTAMINANT LOAD (PESTICIDES)	0.1	PPM	5	ND
TOTAL PERMETHRIN	1	ppm	0.1	ND
TOTAL SPINOSAD	1	ppm	0.1	ND
TRIFLOXYSTROBIN	0.01	ppm	0.1	ND
CAPTAN *	0.005	ppm	0.7	ND
CHLORDANE *	0.005	ppm	0.1	ND

Pesticides — PASSED

Analyzed by 56 ,
Weight 0.9872g
Extraction date 02/11/20 01:02:00
Extracted By 357 ,

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 - DA010143PES
Instrument Used : DA-LCMS-001_DER
Running On :
Batch Date : 02/11/20 12:00:45

Reagent	Dilution	Consums. ID
	10	

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

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

Signature

02/13/20
Signed On

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THC Vape - Trainwreck
Trainwreck
Matrix : Derivative

Certificate of Analysis

PASSED

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

Sample : DA00211015-002
Harvest/LOT ID: HS-TVF0211202002

Batch# : HS-TVF0211202002
Sampled : 02/11/20
Ordered : 02/11/20

Sample Size Received : 7.0
Total Weight/Volume : 2000
Completed : 02/13/20 **Expires:** 02/13/21
Sample Method : SOP Client Method

Residual Solvents — PASSED

Solvent	LOD	Units	Action Level (PPM)	Pass/Fail	Result
BUTANES (N-BUTANE)	96	ppm	5000	PASS	ND
CHLOROFORM	0.18	ppm	2	PASS	ND
1,2-DICHLOROETHANE	0.18	ppm	2	PASS	ND
1,1-DICHLOROETHENE	1	ppm	8	PASS	ND
DICHLOROMETHANE	3.75	ppm	125	PASS	ND
ETHANOL	90	ppm	5000	PASS	ND
ETHYL ACETATE	36	ppm	400	PASS	ND
ETHYL ETHER	45	ppm	500	PASS	ND
ETHYLENE OXIDE	0.6	ppm	5	PASS	ND
HEPTANE	45	ppm	5000	PASS	ND
METHANOL	22.5	ppm	250	PASS	ND
N-HEXANE	4.5	ppm	250	PASS	ND
PENTANES (N-PENTANE)	67.5	ppm	750	PASS	ND
ACETONE	67.5	ppm	750	PASS	<140.000
PROPANE	120	ppm	5000	PASS	ND
ACETONITRILE	5.4	ppm	60	PASS	ND
TOLUENE	13.5	ppm	150	PASS	ND
BENZENE	0.09	ppm	1	PASS	ND
TOTAL XYLENES	13.5	ppm	150	PASS	ND
2-PROPANOL	45	ppm	500	PASS	ND
TRICHLOROETHYLENE	2.25	ppm	25	PASS	ND

Residual Solvents — PASSED

Analyzed by	Weight	Extraction date	Extracted By
850	0.0234g	02/11/20 03:02:33	850

Analysis Method -SOP.T.40.032
Analytical Batch -DA010153SOL
Instrument Used : Headspace GCMS
Running On :
Batch Date : 02/11/20 14:53:39

Reagent	Dilution	Consums. ID
	1	00276446 161040-1 24152436

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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Signature

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Trainwreck
Matrix : Derivative

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

Sample : DA00211015-002
Harvest/LOT ID: HS-TVF0211202002
Batch# : HS-TVF0211202002
Sampled : 02/11/20
Ordered : 02/11/20

Sample Size Received : 7.0
Total Weight/Volume : 2000
Completed : 02/13/20 **Expires:** 02/13/21
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 -DA010140MIC **Batch Date :** 02/11/20, 02/11/20
Instrument Used : PathogenDX PCR_Array Scanner, PathogenDX PCR_Array Scanner
Running On :

Analyzed by	Weight	Extraction date	Extracted By
513,	1.0370g	02/11/20	1082,

Reagent	Reagent	Reagent	Consums. ID	Consums. ID
013120.35	122719.83	013120.46	181207119C	181019-274
013120.54	122719.38	122719.32	918C4	SG298A
122719.61	020420.360		923C4-923AK	23819111
013120.31	121719.32		929C6-929H	104867-12
122719.58	122719.49		50AX26219	190611634
122719.80	122719.77		19323	

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

Analysis Method -SOP.T.30.065, SOP.T.40.065
Analytical Batch -DA010145
Instrument Used : DA-LCMS-001_DER
Running On :
Batch Date : 02/11/20 12:01:46

Analyzed by	Weight	Extraction date	Extracted By
56	1g	02/12/20 11:02:33	56

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
020320.R22	020720.R02	50
021120.R01	111319.01	
020620.R01	012920.R01	
020620.R02		
012920.R03		
020520.R01		

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	0.2

Analyzed by	Weight	Extraction date	Extracted By
53	0.2563g	02/12/20 11:02:50	457

Analysis Method -SOP.T.40.050, SOP.T.30.052
Analytical Batch -DA010127HEA
Instrument Used : ICPMS-2030 B
Running On :
Batch Date : 02/11/20 08:39:22

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

Signature

02/13/20
Signed On