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

Kaycha Labs

THC Shatter - Grape Diamonds
Grape Diamonds
Matrix: Derivative

Certificate of Analysis

Sample:DA00318007-001
Harvest/Lot ID: HS-TETH0311202001
Cultivation Facility: Miami Cultivation
Processing Facility : Homestead Processing
Seed to Sale #1006 0750 4367 3535
Batch Date :03/11/20
Batch#: HS-TETH0311202001
Sample Size Received: 7.0 gram
Total Weight/Volume: 2000 gram
Retail Product Size: 1.0 gram gram
Ordered : 03/18/20
sampled : 03/18/20
Completed: 03/20/20
Sampling Method: SOP.T.20.010

Mar 20, 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.

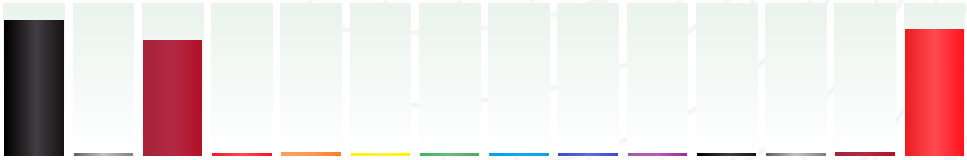
Terpenes
TESTED

CANNABINOID RESULTS

Total THC
73.238%
THC/Container :732.383 mg

Total CBD
0.275%
CBD/Container :2.754 mg

Total Cannabinoids
86.328%
Total Cannabinoids/Container :863.280 mg



	TOTAL CA	TOTAL CB	TOTAL TH	CBC	CBGA	CBG	THCV	D8-THC	CBDV	CBN	CBDA	CBD	D9-THC	THCA
%	86.3280	0.2750	73.2380	ND	2.3410	0.5120	ND	ND	ND	ND	0.3140	ND	2.4890	80.6720
mg/g	863.2800	2.7500	732.3800	ND	23.4100	5.1200	ND	ND	ND	ND	3.1400	ND	24.8900	806.7200
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	Weight	Extraction date :	Extracted By :
450	0.1119g	03/18/20 11:03:16	965

Analysis Method -SOP.T.40.020, SOP.T.30.050 **Reviewed On -** 03/19/20 14:47:47 **Batch Date :** 03/18/20 09:42:25
Analytical Batch -DA011052POT **Instrument Used :** DA-LC-003

Reagent	Dilution	Consums. ID
022720.R11	400	180111 280653964 914C4-914AK 929C6-929H

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).

Filth — PASSED

Analyzed By	Weight	Extraction date	Extracted By
56	NA	NA	NA

Analyte Filth and Foreign Material — **LOD** 0 — **Result** ND
Analysis Method -SOP.T.40.013 **Batch Date :**
Analytical Batch -NA **Reviewed On -** 03/20/20 16:01:48
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

03/20/20
Signed On

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Grape Diamonds
Matrix : Derivative

Certificate of Analysis

PASSED

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

Sample : DA00318007-001
Harvest/LOT ID: HS-TETH0311202001

Batch# : HS-TETH0311202001
Sampled : 03/18/20
Ordered : 03/18/20

Sample Size Received : 7.0 gram
Total Weight/Volume : 2000 gram
Completed : 03/20/20 **Expires:** 03/20/21
Sample Method : SOP.T.20.010

Terpenes

TESTED

Terpenes	LOD(%)	mg/g	%	Result (%)
ALPHA-CEDRENE	0.007	ND	ND	
ALPHA-HUMULENE	0.007	4.505	0.450	
ALPHA-PINENE	0.007	ND	ND	
ALPHA-TERPINENE	0.007	ND	ND	
BETA-MYRCENE	0.007	1.064	0.106	
BETA-PINENE	0.007	ND	ND	
BORNEOL	0.013	ND	ND	
CAMPHENE	0.007	ND	ND	
CAMPHOR	0.013	ND	ND	
CARYOPHYLLENE OXIDE	0.007	0.997	0.099	
CEDROL	0.007	ND	ND	
ALPHA-BISABOLOL	0.007	5.570	0.557	
SABINENE	0.007	ND	ND	
SABINENE HYDRATE	0.007	ND	ND	
TERPINEOL	0.007	0.622	0.062	
TERPINOLENE	0.007	ND	ND	
BETA-CARYOPHYLLENE	0.007	15.887	1.588	
TRANS-NEROLIDOL	0.007	0.370	0.037	
VALENCENE	0.007	ND	ND	
PULEGONE	0.007	ND	ND	
ALPHA-PHELLANDRENE	0.007	ND	ND	
OCIMENE	0.007	< 0.2	< 0.020	
NEROL	0.007	< 0.2	< 0.020	
LINALOOL	0.007	2.031	0.203	
LIMONENE	0.007	< 0.2	< 0.020	
GUAIOL	0.007	ND	ND	
GERANYL ACETATE	0.007	ND	ND	
GERANIOL	0.007	ND	ND	
GAMMA-TERPINENE	0.007	ND	ND	
FENCHONE	0.007	ND	ND	
FARNESENE	0.007	5.357	0.535	

Total (%) 3.667

Terpenes	LOD(%)	mg/g	%	Result (%)
EUCALYPTOL	0.007	ND	ND	
ISOBORNEOL	0.007	ND	ND	
HEXAHYDROTHYMOL	0.007	ND	ND	
FENCHYL ALCOHOL	0.007	0.271	0.027	
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	0.9558g	03/18/20 11:03:07	1351

Analysis Method -SOP.T.40.090
Analytical Batch -DA011038TER **Reviewed On - 03/19/20 08:50:25**
Instrument Used : GA-Triple Quad GCMS Terp
Running On :
Batch Date : 03/18/20 08:31:00

Reagent	Dilution	Consums. ID
021420.10	10	180111
012120.R13		280653964

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

Signature

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Grape Diamonds
Matrix : Derivative

Certificate of Analysis

PASSED

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

Sample : DA00318007-001
Harvest/LOT ID: HS-TETH0311202001

Batch# : HS-TETH0311202001
Sampled : 03/18/20
Ordered : 03/18/20

Sample Size Received : 7.0 gram
Total Weight/Volume : 2000 gram
Completed : 03/20/20 **Expires:** 03/20/21
Sample Method : SOP.T.20.010

Pesticides

PASSED

Pesticides	LOD	Units	Action Level	Result
DIMETHOATE	0.01	ppm	0.1	ND
CYPERMETHRIN	0.05	ppm	0.5	ND
CYFLUTHRIN	0.05	ppm	0.5	ND
CHLORFENAPYR	0.01	ppm	0.1	ND
METHYL PARATHION	0.005	ppm	0.1	ND
CAPTAN	0.07	ppm	0.7	ND
ABAMECTIN B1A	0.02	ppm	0.1	ND
ACEPHATE	0.001	ppm	0.1	ND
DICHLORVOS	0.05	ppm	0.1	ND
DIMETHOMORPH	0.005	ppm	0.2	ND
ACEQUINOCYL	0.01	ppm	0.1	ND
ACETAMIPRID	0.01	ppm	0.1	ND
ETHOPROPHOS	0.01	ppm	0.1	ND
ALDICARB	0.02	ppm	0.1	ND
ETOFENPROX	0.01	ppm	0.1	ND
AZOXYSTROBIN	0.01	ppm	0.1	ND
ETOXAZOLE	0.01	ppm	0.1	ND
BIFENAZATE	0.01	ppm	0.1	ND
FENHEXAMID	0.01	ppm	0.1	ND
FENOXYCARB	0.01	ppm	0.1	ND
BIFENTHRIN	0.01	ppm	0.1	ND
BOSCALID	0.01	PPM	0.1	ND
FENPYROXIMATE	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
IMAZALIL	0.01	ppm	0.1	ND
CHLORMEQUAT CHLORIDE	0.05	ppm	1	ND
IMIDACLOPRID	0.01	ppm	0.4	ND
CHLORPYRIFOS	0.01	ppm	0.1	ND
KRESOXIM-METHYL	0.01	ppm	0.1	ND
MALATHION	0.01	ppm	0.2	ND
CLOFENTEZINE	0.01	ppm	0.2	ND
METALAXYL	0.01	ppm	0.1	ND
COUMAPHOS	0.005	ppm	0.1	ND
METHIOCARB	0.01	ppm	0.1	ND
METHOMYL	0.01	ppm	0.1	ND
DAMINOZIDE	0.02	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
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

Pesticides — PASSED

Analyzed by	Weight	Extraction date	Extracted By
585	1.0425g	03/18/20 12:03:23	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 - DA011047PES
Reviewed On- 03/20/20 16:01:48
Instrument Used : DA-LCMS-001_DER
Running On :
Batch Date : 03/18/20 09:34:02

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

03/20/20
Signed On

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Grape Diamonds
Matrix : Derivative

Certificate of Analysis

PASSED

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

Sample : DA00318007-001
Harvest/LOT ID: HS-TETH0311202001

Batch# : HS-TETH0311202001
Sampled : 03/18/20
Ordered : 03/18/20

Sample Size Received : 7.0 gram
Total Weight/Volume : 2000 gram
Completed : 03/20/20 **Expires:** 03/20/21
Sample Method : SOP.T.20.010

Residual Solvents — PASSED

Solvent	LOD	Units	Action Level (PPM)	Pass/Fail	Result
1,1-DICHLOROETHENE	1	ppm	8	PASS	ND
1,2-DICHLOROETHANE	0.18	ppm	2	PASS	ND
2-PROPANOL	45	ppm	500	PASS	ND
ACETONE	67.5	ppm	750	PASS	<140.000
ACETONITRILE	5.4	ppm	60	PASS	ND
BENZENE	0.09	ppm	1	PASS	ND
BUTANES (N-BUTANE)	96	ppm	5000	PASS	ND
CHLOROFORM	0.18	ppm	2	PASS	ND
DICHLOROMETHANE	3.75	ppm	125	PASS	ND
ETHANOL	90	ppm	5000	PASS	2498.495
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
PROPANE	120	ppm	5000	PASS	ND
TOLUENE	13.5	ppm	150	PASS	ND
TOTAL XYLENES	13.5	ppm	150	PASS	ND
TRICHLOROETHYLENE	2.25	ppm	25	PASS	ND

Residual Solvents — PASSED

Analyzed by	Weight	Extraction date	Extracted By
850	0.0220g	03/18/20 03:03:17	850

Analysis Method - SOP.T.40.032
Analytical Batch - DA011062SOL **Reviewed On -** 03/19/20 11:45:36
Instrument Used : Headspace GCMS
Running On :
Batch Date : 03/18/20 13:21:22

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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Grape Diamonds
Matrix : Derivative

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

Sample : DA00318007-001
Harvest/LOT ID: HS-TETH0311202001

Batch# : HS-TETH0311202001
Sampled : 03/18/20
Ordered : 03/18/20

Sample Size Received : 7.0 gram
Total Weight/Volume : 2000 gram
Completed : 03/20/20 **Expires:** 03/20/21
Sample Method : SOP.T.20.010

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.	

Analysis Method -SOP.T.40.043 / SOP.T.40.044 / SOP.T.40.041
Analytical Batch -DA011053MIC , DA011056TYM Batch Date : 03/18/20, 03/18/20
Instrument Used : PathogenDX PCR_Array Scanner, PathogenDX PCR_Array Scanner
Running On :

Analyzed by	Weight	Extraction date	Extracted By
357, 513	1.0234g	03/19/20	513, 513

Reagent	Reagent	Reagent	Consums. ID	Consums. ID
121619.17	020320.56	013120.408	181019-274	50AX26219
121619.11	013120.326	121719.20	SG298A	19323
013120.97	013120.395	013120.320	181207119C	23819111
122719.32	121719.26	022120.78	918C4-918J	190611634
013120.124	122719.136	022120.139	914C4-914AK	
013120.312	020320.64	022120.138	929C6-929H	

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	0.02
AFLATOXIN G1	0.002	ppm	ND	0.02
AFLATOXIN B2	0.002	ppm	ND	0.02
AFLATOXIN B1	0.002	ppm	ND	0.02
OCHRATOXIN A+	0.002	ppm	ND	0.02

Analysis Method -SOP.T.30.065, SOP.T.40.065
Analytical Batch -DA011048MYC | Reviewed On - 03/20/20 16:34:45
Instrument Used : DA-LCMS-001_DER
Running On :
Batch Date : 03/18/20 09:34:54

Analyzed by	Weight	Extraction date	Extracted By
585	1g	03/20/20 04:03:23	585

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
031720.R07	031820.R01	50
031720.R08	031020.R02	
031720.R02	111319.02	
031720.R03		
031820.R03		
031820.R02		

Metal	LOD	Unit	Result	Action Level (PPM)
ARSENIC	0.02	PPM	ND	0.2
CADMIUM	0.02	PPM	ND	0.2
LEAD	0.02	PPM	ND	0.5
MERCURY	0.02	PPM	ND	0.2

Analyzed by	Weight	Extraction date	Extracted By
457	0.2513g	03/18/20 11:03:10	457

Analysis Method -SOP.T.40.050, SOP.T.30.052
Analytical Batch -DA011041HEA | Reviewed On - 03/19/20 10:10:20
Instrument Used : ICPMS-2030
Running On :
Batch Date : 03/18/20 08:39:21

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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ISO Accreditation # ISO/IEC 17025:2017 Accreditation PJLA-Testing 97164

Signature

03/20/20
Signed On