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

Kaycha Labs

THC Blueberry OG Slim Vape Pen
Blueberry OG
Matrix: Derivative

Certificate of Analysis

Sample:DA00406007-001
Harvest/Lot ID: HS-TVF0405202001
Cultivation Facility: Miami Cultivation
Processing Facility : Homestead Processing
Seed to Sale #0357 9065 9994 7627
Batch Date :04/05/20
Batch#: HS-TVF0405202001
Sample Size Received: 7 gram
Total Weight/Volume: 1642 gram
Retail Product Size: 0.5 gram gram
Ordered : 04/06/20
sampled : 04/06/20
Completed: 04/09/20
Sampling Method: SOP.T.20.010

Apr 09, 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.

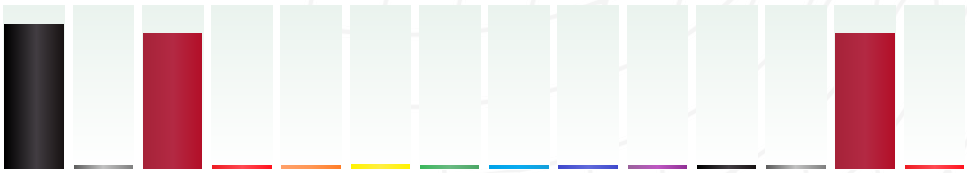
Terpenes
TESTED

CANNABINOID RESULTS

Total THC
76.175%
THC/Container :380.876 mg

Total CBD
0.000%
CBD/Container :0.000 mg

Total Cannabinoids
81.240%
Total Cannabinoids/Container :406.200 mg



	TOTAL CA	TOTAL CB	TOTAL TH	CBC	CBGA	CBG	THCV	D8-THC	CBDV	CBN	CBDA	CBD	D9-THC	THCA
%	81.2400	ND	76.1750	1.3580	0.4089	2.0650	0.5060	0.1719	ND	0.5090	ND	ND	75.8480	0.3730
mg/g	812.4000	ND	761.7500	13.5800	4.0900	20.6500	5.0599	1.7200	ND	5.0900	ND	ND	758.4800	3.7300
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	0.1091g	04/06/20 12:04:03	965

Analysis Method -SOP.T.40.020, SOP.T.30.050 **Reviewed On -** 04/07/20 12:13:37 **Batch Date :** 04/06/20 09:38:04
Analytical Batch -DA011456POT **Instrument Used :** DA-LC-003

Reagent	Dilution	Consums. ID
032320.11	400	180111
033120.R19		914C4-914AK
033120.R18		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
584	1g	04/06/20	584

Analyte	LOD	Result
Filth and Foreign Material	0	ND

Analysis Method -SOP.T.40.013 **Batch Date :** 04/06/20 12:08:32
Analytical Batch -DA011463FIL **Reviewed On -** 04/06/20 12:17:00
Instrument Used : Filth/Foreign Material Microscope

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

04/09/20
Signed On

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Blueberry OG
Matrix : Derivative

Certificate of Analysis

PASSED

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

Sample : DA00406007-001
Harvest/LOT ID: HS-TVF0405202001

Batch# : HS-TVF0405202001
Sampled : 04/06/20
Ordered : 04/06/20

Sample Size Received : 7 gram
Total Weight/Volume : 1642 gram
Completed : 04/09/20 **Expires:** 04/09/21
Sample Method : SOP.T.20.010

Terpenes

TESTED

Terpenes	LOD(%)	mg/g	%	Result (%)
ALPHA-CEDRENE	0.007	ND	ND	
ALPHA-HUMULENE	0.007	5.153	0.515	
ALPHA-PINENE	0.007	3.743	0.374	
ALPHA-TERPINENE	0.007	ND	ND	
BETA-MYRCENE	0.007	25.013	2.501	
BETA-PINENE	0.007	4.149	0.414	
BORNEOL	0.013	0.626	0.062	
CAMPHENE	0.007	1.350	0.135	
CAMPHOR	0.013	ND	ND	
CARYOPHYLLENE OXIDE	0.007	1.076	0.107	
CEDROL	0.007	ND	ND	
ALPHA-BISABOLOL	0.007	0.313	0.031	
SABINENE	0.007	ND	ND	
SABINENE HYDRATE	0.007	ND	ND	
TERPINEOL	0.007	5.135	0.513	
TERPINOLENE	0.007	1.164	0.116	
BETA-CARYOPHYLLENE	0.007	18.952	1.895	
TRANS-NEROLIDOL	0.007	0.362	0.036	
VALENCENE	0.007	< 0.2	< 0.020	
PULEGONE	0.007	ND	ND	
ALPHA-PHELLANDRENE	0.007	ND	ND	
OCIMENE	0.007	ND	ND	
NEROL	0.007	0.449	0.044	
LINALOOL	0.007	5.138	0.513	
LIMONENE	0.007	22.727	2.272	
GUAIOL	0.007	ND	ND	
GERANYL ACETATE	0.007	< 0.2	< 0.020	
GERANIOL	0.007	1.039	0.103	
GAMMA-TERPINENE	0.007	< 0.2	< 0.020	
FENCHONE	0.007	ND	ND	
FARNESENE	0.007	< 0.2	< 0.020	
EUCALYPTOL	0.007	ND	ND	
ISOBORNEOL	0.007	< 0.2	< 0.020	
HEXAHYDROTHYMOL	0.007	ND	ND	
FENCHYL ALCOHOL	0.007	ND	ND	
3-CARENE	0.007	< 0.2	< 0.020	
CIS-NEROLIDOL	0.007	ND	ND	
ISOPULEGOL	0.007	< 0.2	< 0.020	

Total (%) 9.639

Terpenes

TESTED

Analyzed by	Weight	Extraction date	Extracted By
1351	0.9486g	04/06/20 12:04:57	1351

Analysis Method - SOP.T.40.090
Analytical Batch - DA011443TER **Reviewed On -** 04/08/20 08:19:11
Instrument Used : DA-GCMS-004
Running On :
Batch Date : 04/06/20 08:10:01

Reagent	Dilution	Consums. ID
021420.11	10	180111
012120.R13		280670723

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

04/09/20
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Blueberry OG
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MIAMI, FL, 33187, US
Telephone: 7865860672
Email: erick.ramirez@curaleaf.com

Sample : DA00406007-001
Harvest/LOT ID: HS-TVF0405202001

Batch# : HS-TVF0405202001
Sampled : 04/06/20
Ordered : 04/06/20

Sample Size Received : 7 gram
Total Weight/Volume : 1642 gram
Completed : 04/09/20 **Expires:** 04/09/21
Sample Method : SOP.T.20.010

Pesticides

PASSED

Pesticides	LOD	Units	Action Level	Result
ABAMECTIN B1A	0.01	ppm	0.1	ND
ACEPHATE	0.01	ppm	0.1	ND
ACEQUINOCYL	0.01	ppm	0.1	ND
ACETAMIPRID	0.01	ppm	0.1	ND
ALDICARB	0.01	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	0.05	ppm	0.5	ND
CARBOFURAN	0.01	ppm	0.1	ND
CHLORANTRANILIPROLE	0.1	ppm	1	ND
CHLORMEQUAT CHLORIDE	0.05	ppm	1	ND
CHLORPYRIFOS	0.01	ppm	0.1	ND
CLOFENTEZINE	0.02	ppm	0.2	ND
COUMAPHOS	0.01	ppm	0.1	ND
CYPERMETHRIN	0.05	ppm	0.5	ND
DAMINOZIDE	0.01	ppm	0.1	ND
DIAZANON	0.01	ppm	0.1	ND
DICHLORVOS	0.01	ppm	0.1	ND
DIMETHOATE	0.01	ppm	0.1	ND
DIMETHOMORPH	0.02	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	0.01	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	0.04	ppm	0.4	ND
KRESOXIM-METHYL	0.01	ppm	0.1	ND
MALATHION	0.02	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
METHYL PARATHION	0.005	ppm	0.1	ND
MEVINPHOS	0.01	ppm	0.1	ND
MYCLOBUTANIL	0.01	ppm	0.1	ND
NALED	0.025	ppm	0.25	ND
OXAMYL	0.05	ppm	0.5	ND
PACLOBUTRAZOL	0.01	ppm	0.1	ND
PHOSMET	0.01	ppm	0.1	ND

Pesticides	LOD	Units	Action Level	Result
PIPERONYL BUTOXIDE	0.1	ppm	3	ND
PRALLETHRIN	0.01	ppm	0.1	ND
PROPICONAZOLE	0.01	ppm	0.1	ND
PROPOXUR	0.01	ppm	0.1	ND
PYRETHRINS	0.05	ppm	0.5	ND
PYRIDABEN	0.02	ppm	0.2	ND
SPINETORAM	0.02	PPM	0.2	ND
SPIROMESIFEN	0.01	ppm	0.1	ND
SPIROTETRAMAT	0.01	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	0.05	ppm	0.5	ND
TOTAL CONTAMINANT LOAD (PESTICIDES)	0	PPM	5	ND
TOTAL PERMETHRIN	0.01	ppm	0.1	ND
TOTAL SPINOSAD	0.01	ppm	0.1	ND
TRIFLOXYSTROBIN	0.01	ppm	0.1	ND

Pesticides — PASSED

Analyzed by	Weight	Extraction date	Extracted By
585	1.0145g	04/06/20 12:04:51	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 - DA011444PES
Instrument Used : DA-LCMS-001_DER (PES)
Running On :
Reviewed On- 04/06/20 12:17:00
Batch Date : 04/06/20 08:18:28

Reagent	Dilution	Consums. ID
012120.16 040720.R13 040720.R14 072919.19 033120.R17	10	180111 280678841

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

Sample : DA00406007-001
Harvest/LOT ID: HS-TVF0405202001

Batch# : HS-TVF0405202001
Sampled : 04/06/20
Ordered : 04/06/20

Sample Size Received : 7 gram
Total Weight/Volume : 1642 gram
Completed : 04/09/20 **Expires:** 04/09/21
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	ND
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	ND
ETHYL ACETATE	36	ppm	400	PASS	<140.000
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	0.0223g	04/06/20 01:04:40	584

Analysis Method - SOP.T.40.032
Analytical Batch - DA011467SOL
Instrument Used : DA-GCMS-002
Running On :
Batch Date : 04/06/20 13:30:03

Reviewed On - 04/08/20 05:51:02

Reagent	Dilution	Consums. ID
	1	00279984 161291-1 24154107

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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Harvest/LOT ID: HS-TVF0405202001

Batch# : HS-TVF0405202001
Sampled : 04/06/20
Ordered : 04/06/20

Sample Size Received : 7 gram
Total Weight/Volume : 1642 gram
Completed : 04/09/20 **Expires:** 04/09/21
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.	
TOTAL_YEAST_AND_MOLD		<100	

Analysis Method -SOP.T.40.043 / SOP.T.40.044 / SOP.T.40.041
Analytical Batch -DA011498MIC , DA011468TYM Batch Date : 04/07/20, 04/06/20
Instrument Used : (Micro) 25-27C Incubator, PathogenDX PCR_Array Scanner DA-111
Running On :

Analyzed by	Weight	Extraction date	Extracted By
513, 513	1.0276g	04/08/20	513, 513

Reagent	Consums. ID
012120.01	4603475C 190611634 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 -DA011445 | Reviewed On - 04/08/20 09:35:20
Instrument Used : DA-LCMS-001_DER (MYC)
Running On :
Batch Date : 04/06/20 08:19:46

Analyzed by	Weight	Extraction date	Extracted By
585	1g	04/06/20 03:04:51	795

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
032420.R06	033020.R05	50
040320.R11	033120.R12	
040620.R01	111319.02	
040620.R02		
033020.R06		
033020.R07		

Metal	LOD	Unit	Result	Action Level (PPM)
ARSENIC	0.02	PPM	ND	0.2
CADMIUM	0.02	PPM	ND	0.2
LEAD	0.05	PPM	ND	0.5
MERCURY	0.02	PPM	ND	0.2

Analyzed by	Weight	Extraction date	Extracted By
53	0.2530g	04/06/20 01:04:28	457

Analysis Method -SOP.T.40.050, SOP.T.30.052
Analytical Batch -DA011448HEA | Reviewed On - 04/07/20 06:44:48
Instrument Used : DA-ICPMS-002
Running On :
Batch Date : 04/06/20 08:41:04

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

04/09/20
Signed On