kaycha LABS
2444 NE 1st Blvd Suite 700
Gainesville, FL, 32609, US
833-465-8378

Kaycha Labs

Forbidden Fruit 0.5g Vape Cartridge
Forbidden Fruit
Matrix: Derivative

Certificate of Analysis

COMPLIANCE FOR RETAIL

Sample:GA10923001-001
Harvest/Lot ID: PHFV106-2109-1607
Batch#: DF-FFRU-2109-0623
Seed to Sale# PHFV106-2109-1607
Batch Date: 09/16/21
Sample Size Received: 15.5 gram
Total Amount: 4767 gram
Retail Product Size: 0.5
Ordered: 09/23/21
Sampled: 09/23/21
Completed: 09/28/21
Sampling Method: SOP.T.20.010

Sep 28, 2021 | Liberty Health Sciences, FL
18770 N CR 225
Gainesville, FL, 32609, US

AYR wellness

PASSED

PRODUCT IMAGE

Box

SAFETY RESULTS

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

MISC.

Terpenes
TESTED

Cannabinoid

PASSED

Total THC
0%
/Container : 379.051 mg

Total CBD
0%
/Container : 0 mg

Total Cannabinoids
0%
Total Cannabinoids/Container : 402.349 mg

	CBDV	CBDA	CBGA	CBG	CBD	THCV	CBN	D9-THC	D8-THC	CBC	THCA
%	0	0	0	2.637	0	0.453	1.184	75.81	0	0.384	0
mg/g											
LOD	0.001 %	0.001 %	0.001 %	0.001 %	0.001 %	0.001 %	0.001 %	0.001 %	0.001 %	0.001 %	0.001 %

Analyzed by: 2338
Weight: 0.1046g
Extraction date: 09/24/21 10:09:51
Extracted by: 2820

Analysis Method : SOP.T.40.031, SOP.T.30.031
Analytical Batch : GA031695POT
Instrument Used : GA-HPLC-003 2030C PDA
Analyzed Date : 09/24/21 13:39:57
Reviewed On : 09/28/21 12:46:28
Batch Date : 09/23/21 13:53:53

Dilution : 400
Reagent : 060220.R16; 010421.51; 060821.16; 092421.R43; 092421.R44
Consumables : 282066106; 947.271; 470228-424; 9291.271; 200721; 12224-108CD-108C; 000310748
Pipette : N/A

Full Spectrum cannabinoid analysis utilizing High Performance Liquid Chromatography with UV detection in accordance with F.S. Rule 64ER20-39.

Miranda MacDonald
Lab Director

State License # CMTL-0001
ISO 17025 Accreditation # ISO/IEC 17025:2017 Accreditation PJLA-Testing 97164

Signature
09/28/21

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Liberty Health Sciences, FL

18770 N CR 225
Gainesville, FL, 32609, US
Telephone: (833) 254-4877
Email: Qualityassurance@libertyhealthsciences.com

Sample : GA10923001-001
Harvest/Lot ID: PHFV106-2109-1607

Batch# : DF-FFRU-2109-0623
Sampled : 09/23/21
Ordered : 09/23/21

Sample Size Received : 15.5 gram
Total Amount : 4767 gram
Completed : 09/28/21 **Expires:** 09/28/22
Sample Method : SOP.T.20.010

Terpenes

TESTED

Terpenes	LOD (%)	mg/g	%	Result (%)
TOTAL TERPINEOL	0.007		0	
CAMPHENE	0.007		0	
BETA-MYRCENE	0.007		1.7	
ALPHA-PHELLANDRENE	0.007		0	
3-CARENE	0.007		0	
OCIMENE	0.007		0	
EUCALYPTOL	0.007		0	
LINALOOL	0.007		0.355	
FENCHONE	0.007		0	
ISOPULEGOL	0.007		0	
ISOBORNEOL	0.007		0	
HEXAHYDROTHYMOL	0.007		0	
NEROL	0.007		0	
GERANYL ACETATE	0.007		0	
BETA-CARYOPHYLLENE	0.007		1.027	
VALENCENE	0.007		0.03	
CIS-NEROLIDOL	0.007		0	
CARYOPHYLLENE OXIDE	0.007		0.031	
CEDROL	0.007		0	
FARNESENE	0.007		0	
ALPHA-BISABOLOL	0.007		0.128	
ALPHA-PINENE	0.007		0	
SABINENE	0.007		0	
BETA-PINENE	0.007		0.026	
ALPHA-TERPINENE	0.007		0	
LIMONENE	0.007		0.875	
GAMMA-TERPINENE	0.007		0	
TERPINOLENE	0.007		0	
SABINENE HYDRATE	0.007		0	
FENCHYL ALCOHOL	0.007		0	
CAMPHOR	0.013		0	

Terpenes	LOD (%)	mg/g	%	Result (%)
BORNEOL	0.013	0	0	
GERANIOL	0.007	0.16	0.016	
PULEGONE	0.007	0	0	
ALPHA-CEDRENE	0.007	0	0	
ALPHA-HUMULENE	0.007	2.21	0.221	
TRANS-NEROLIDOL	0.007	1.56	0.156	
GUAIOL	0.007	0.14	0.014	

Total (%)

Analyzed by: 2155
Weight: 1.0036g
Extraction date: 09/24/21 09:09:59
Extracted by: 1791

Analysis Method : SOP.T.30.061A.FL, SOP.T.40.061A.FL
Analytical Batch : GA031696TER
Instrument Used : GA-GCMS-005 QP2020NX
Analyzed Date : 09/24/21 16:39:51
Reviewed On : 09/27/21 15:07:37
Batch Date : 09/23/21 13:54:57

Dilution : 100
Reagent : 091021.R15; 010421.32; 010421.51
Consumables : 947.271; 470228-424; 9291.271; 200721; 210419634; R0NB32898; 00299409
Pipette : N/A

Terpenoid testing is performed utilizing Gas Chromatography Mass Spectrometry. For all Flower samples, the Total Terpenes % is dry-weight corrected.

Miranda MacDonald
Lab Director

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

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Telephone: (833) 254-4877
Email: Qualityassurance@libertyhealthsciences.com

Sample : GA10923001-001
Harvest/Lot ID: PHFV106-2109-1607
Batch# : DF-FFRU-2109-0623
Sampled : 09/23/21
Ordered : 09/23/21
Sample Size Received : 15.5 gram
Total Amount : 4767 gram
Completed : 09/28/21 **Expires:** 09/28/22
Sample Method : SOP.T.20.010

Pesticides

PASSED

Pesticide	LOD	Units	Action Level	Pass/Fail	Result
ABAMECTIN B1A	0.01	ppm	0.1		0
ACEPHATE	0.01	ppm	0.1		0
ACEQUINOCYL	0.01	ppm	0.1		0
ACETAMIPRID	0.01	ppm	0.1		0
ALDICARB	0.01	ppm	0.1		0
AZOXYSTROBIN	0.01	ppm	0.1		0
BIFENAZATE	0.01	ppm	0.1		0
BIFENTHRIN	0.01	ppm	0.1		0
BOSCALID	0.01	PPM	0.1		0
CARBARYL	0.05	ppm	0.5		0
CARBOFURAN	0.01	ppm	0.1		0
CHLORANTRANILIPROLE	0.1	ppm	1		0
CHLORMEQUAT CHLORIDE	0.1	ppm	1		0
CHLORPYRIFOS	0.01	ppm	0.1		0
CLOFENTEZINE	0.02	ppm	0.2		0
COUMAPHOS	0.01	ppm	0.1		0
DAMINOZIDE	0.01	ppm	0.1		0
DIAZINON	0.01	ppm	0.1		0
DICHLORVOS	0.01	ppm	0.1		0
DIMETHOATE	0.01	ppm	0.1		0
ETHOPROPHOS	0.01	ppm	0.1		0
ETOFENPROX	0.01	ppm	0.1		0
ETOXAZOLE	0.01	ppm	0.1		0
FENHEXAMID	0.01	ppm	0.1		0
FENOXYCARB	0.01	ppm	0.1		0
FENPYROXIMATE	0.01	ppm	0.1		0
FIPRONIL	0.01	ppm	0.1		0
FLONICAMID	0.01	ppm	0.1		0
FLUDIOXONIL	0.01	ppm	0.1		0
HEXYTHIAZOX	0.01	ppm	0.1		0
IMAZALIL	0.01	ppm	0.1		0
IMIDACLOPRID	0.04	ppm	0.4		0
KRESOXIM-METHYL	0.01	ppm	0.1		0
MALATHION	0.02	ppm	0.2		0
METALAXYL	0.01	ppm	0.1		0
METHIOCARB	0.01	ppm	0.1		0
METHOMYL	0.01	ppm	0.1		0
MEVINPHOS	0.01	ppm	0.1		0
MYCLOBUTANIL	0.01	ppm	0.1		0
NALED	0.025	ppm	0.25		0
OXAMYL	0.05	ppm	0.5		0
PACLOBUTRAZOL	0.01	ppm	0.1		0
PHOSMET	0.01	ppm	0.1		0
PIPERONYL BUTOXIDE	0.3	ppm	3		0
PRALLETHRIN	0.01	ppm	0.1		0
PROPICONAZOLE	0.01	ppm	0.1		0
PROPOXUR	0.01	ppm	0.1		0
PYRETHRINS	0.05	ppm	0.5		0
PYRIDABEN	0.02	ppm	0.2		0.001
SPIROMESIFEN	0.01	ppm	0.1		0
SPIROTETRAMAT	0.01	ppm	0.1		0
SPIROXAMINE	0.01	ppm	0.1		0
TEBUCONAZOLE	0.01	ppm	0.1		0
THIACLOPRID	0.01	ppm	0.1		0
THIAMETHOXAM	0.05	ppm	0.5		0
TOTAL CONTAMINANT LOAD (PESTICIDES)	0.05	PPM	5		0
TOTAL DIMETHOMORPH	0.02	PPM	0.2		0
TOTAL PERMETHRIN	0.01	ppm	0.1		0
TOTAL SPINETORAM	0.02	PPM	0.2		0
TOTAL SPINOSAD	0.01	ppm	0.1		0
TRIFLOXYSTROBIN	0.01	ppm	0.1		0
PENTACHLORONITROBENZENE (PCNB) *	0.01	PPM	0.15		0
PARATHION-METHYL *	0.01	PPM	0.1		0
CAPTAN *	0.025	PPM	0.7		0
CHLORDANE *	0.01	PPM	0.1		0
CHLORFENAPYR *	0.01	PPM	0.1		0
CYFLUTHRIN *	0.01	PPM	0.5		0
CYPERMETHRIN *	0.01	PPM	0.5		0

Analyzed by: 1850 **Weight:** 1.0067g **Extraction date:** 09/24/21 10:09:58 **Extracted by:** 1791

Analysis Method : SOP.T.30.101.FL (Gainesville), SOP.T.30.102.FL (Davie), SOP.T.40.101.FL (Gainesville), SOP.T.40.102.FL (Davie)
Analytical Batch : GA031661PES
Instrument Used : GA-LCMS-001 PES
Analyzed Date : N/A
Reviewed On : 09/27/21 16:24:04
Batch Date : 09/22/21 19:51:03
Dilution : 10
Reagent : 061521.10; 092421.R05; 092221.R27; 092221.R28
Consumables : 947.271; 470228-424; 9291.271; 200721; 210419634; 296055173
Pipette : N/A

Testing for agricultural agents is performed utilizing Liquid Chromatography Triple-Quadrupole Mass Spectrometry in accordance with F.S. Rule 64ER20-39.

Analyzed by: **Weight:** **Extraction date:** **Extracted by:**

Analysis Method : SOP.T.30.151.FL (Gainesville), SOP.T.30.151A.FL (Davie), SOP.T.40.151.FL
Analytical Batch : GA031739VOL
Instrument Used : GA-GCMS-003
Analyzed Date : 09/25/21 17:54:12
Reviewed On : 09/27/21 15:15:14
Batch Date : 09/24/21 11:21:32

Testing for agricultural agents is performed utilizing Gas Chromatography Triple-Quadrupole Mass Spectrometry in accordance with F.S. Rule 64ER20-39.

Miranda MacDonald
Lab Director

State License # CMTL-0001
ISO 17025 Accreditation # ISO/IEC 17025:2017 Accreditation PJLA-Testing 97164

Signature
09/28/21

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Forbidden Fruit
Matrix : Derivative

Certificate of Analysis

PASSED

Liberty Health Sciences, FL

18770 N CR 225
Gainesville, FL, 32609, US
Telephone: (833) 254-4877
Email: Qualityassurance@libertyhealthsciences.com

Sample : GA10923001-001
Harvest/Lot ID: PHFV106-2109-1607

Batch# : DF-FFRU-2109-0623
Sampled : 09/23/21
Ordered : 09/23/21

Sample Size Received : 15.5 gram
Total Amount : 4767 gram
Completed : 09/28/21 **Expires:** 09/28/22
Sample Method : SOP.T.20.010

Residual Solvents

PASSED

Solvents	LOD	Units	Action Level	Pass/Fail	Result
METHANOL	25	ppm	250		0
ETHANOL	500	ppm	5000		84.325
PENTANES (N-PENTANE)	75	ppm	750		0
ETHYL ETHER	50	ppm	500		0
ACETONE	75	ppm	750		0
2-PROPANOL	50	ppm	500		0
ACETONITRILE	6	ppm	60		0
DICHLOROMETHANE	12.5	ppm	125		0
N-HEXANE	25	ppm	250		10.602
ETHYL ACETATE	40	ppm	400		0
BENZENE	0.1	ppm	1		0
HEPTANE	500	ppm	5000		0
TOLUENE	15	ppm	150		0
TOTAL XYLENES	15	ppm	150		0
PROPANE	500	ppm	5000		0
CHLOROFORM	0.2	ppm	2		0
1,2-DICHLOROETHANE	0.2	ppm	2		0
BUTANES (N-BUTANE)	500	ppm	5000		0
ETHYLENE OXIDE	0.5	ppm	5		0
1,1-DICHLOROETHENE	0.8	ppm	8		0
TRICHLOROETHYLENE	2.5	ppm	25		0

Analyzed by: 2155
Weight: 0.0277g
Extraction date: 09/23/21 03:09:37
Extracted by: 2155

Analysis Method : SOP.T.40.041.FL
Analytical Batch : GA031612SOL
Instrument Used : GA-GCMS-001 Headspace Solvent
Analyzed Date : 09/22/21 09:51:14

Reviewed On : 09/24/21 13:02:36
Batch Date : 09/22/21 09:44:48

Dilution : N/A
Reagent : N/A
Consumables : 24154107; ach-20-1720
Pipette : N/A

Residual solvents analysis is performed utilizing Gas Chromatography Mass Spectrometry in accordance with with F.S. Rule 64ER20-39.

Miranda MacDonald
Lab Director

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

Signature
09/28/21

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Forbidden Fruit
Matrix : Derivative

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Liberty Health Sciences, FL

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Gainesville, FL, 32609, US
Telephone: (833) 254-4877
Email: Qualityassurance@libertyhealthsciences.com

Sample : GA10923001-001
Harvest/Lot ID: PHFV106-2109-1607

Batch# : DF-FFRU-2109-0623
Sampled : 09/23/21
Ordered : 09/23/21

Sample Size Received : 15.5 gram
Total Amount : 4767 gram
Completed : 09/28/21 **Expires:** 09/28/22
Sample Method : SOP.T.20.010

Microbial — PASSED

Analyte	LOD	Units	Result	Pass / Fail	Action Level
ESCHERICHIA COLI SHIGELLA SPP	1726	RFU	0		1726
SALMONELLA SPECIFIC GENE	10000	RFU	0		10000
ASPERGILLUS FLAVUS	10000	RFU	0		10000
ASPERGILLUS FUMIGATUS	10000	RFU	0		10000
ASPERGILLUS TERREUS	10000	RFU	0		10000
ASPERGILLUS NIGER	10000	RFU	0		10000
TOTAL YEAST AND MOLD	10	CFU	<10		100000

Analyzed by: 1828 | **Weight:** 0.9293g | **Extraction date:** 09/23/21 03:09:09 | **Extracted by:** 2119

Analysis Method : SOP.T.40.056C, SOP.T.40.058.FL, SOP.T.40.209.FL
Analytical Batch : GA031702MIC
Instrument Used : GA-093 PathogenDx Scanner (MIC)
Analyzed Date : 09/23/21 15:06:47
Reviewed On : 09/28/21 12:39:10
Batch Date : 09/23/21 14:34:12

Dilution : 10
Reagent : 072821.18; 091520.07
Consumables : 004103; 006103; 003102
Pipette : N/A

Analyzed by: N/A | **Weight:** N/A | **Extraction date:** N/A | **Extracted by:** N/A

Analysis Method : SOP.T.40.208 (Gainesville), SOP.T.40.209.FL
Analytical Batch : GA031701TYM
Instrument Used : GA-093 PathogenDx Scanner (QUANT)
Analyzed Date : 09/23/21 15:06:50
Reviewed On : 09/28/21 12:42:16
Batch Date : 09/23/21 14:34:10

Total yeast and mold testing is performed utilizing MPN and traditional culture based techniques in accordance with F.S. Rule 64ER20-39.

Mycotoxins — PASSED

Analyte	LOD	Units	Result	Pass / Fail	Action Level
AFLATOXIN B2	0.002	ppm	0		0.02
AFLATOXIN B1	0.002	ppm	0		0.02
OCHRATOXIN A	0.002	ppm	0		0.02
AFLATOXIN G1	0.002	ppm	0		0.02
AFLATOXIN G2	0.002	ppm	0		0.02

Analyzed by: 1850 | **Weight:** 1.0067g | **Extraction date:** 09/27/21 04:09:25 | **Extracted by:** 1850

Analysis Method : SOP.T.30.101.FL (Gainesville), SOP.T.40.101.FL (Gainesville), SOP.T.30.102.FL (Davie), SOP.T.40.102.FL (Davie)
Analytical Batch : GA031740MYC
Instrument Used : GA-LCMS-001 MYC
Analyzed Date : N/A
Reviewed On : 09/27/21 17:32:14
Batch Date : 09/24/21 11:21:36

Dilution : ND; ND; ND; ND; ND
Reagent : Aflatoxin G2; Aflatoxin G1; Aflatoxin B2; Aflatoxin B1; Ochratoxin A
Consumables : 0.02; 0.02; 0.02; 0.02; 0.02
Pipette : N/A

Mycotoxins testing utilizing Liquid Chromatography with Triple-Quadrupole Mass Spectrometry in accordance with F.S. Rule 64ER20-39.

Heavy Metals — PASSED

Metal	LOD	Units	Result	Pass / Fail	Action Level
ARSENIC	0.02	PPM	0.006		0.2
CADMIUM	0.02	PPM	0		0.2
MERCURY	0.02	PPM	0.028		0.2
LEAD	0.05	PPM	0.006		0.5

Analyzed by: 2338 | **Weight:** 0.2215g | **Extraction date:** 09/24/21 11:09:05 | **Extracted by:** 2821

Analysis Method : SOP.T.30.082.FL, SOP.T.40.082.FL
Analytical Batch : GA031697HEA
Instrument Used : GA-ICPMS-002
Analyzed Date : 09/24/21 13:53:49
Reviewed On : 09/24/21 17:48:08
Batch Date : 09/23/21 13:55:26

Dilution : 100
Reagent : 092321.R30; 092321.R33; 010421.51; 061621.03; 082421.R51; 091521.R52; 081321.R24; 082421.R46
Consumables : 12224-108CD-108C; 106667-05-100719
Pipette : N/A

Heavy Metals analysis is performed using Inductively Coupled Plasma Mass Spectrometry in accordance with F.S. Rule 64ER20-39.

Miranda MacDonald
Lab Director

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Sample Size Received : 15.5 gram
Total Amount : 4767 gram
Completed : 09/28/21 **Expires:** 09/28/22
Sample Method : SOP.T.20.010

Filth/Foreign Material — PASSED

Analyte	LOD	Units	Result	P/F	Action Level
Filth and Foreign Material	0.1	%	0		5

Analyzed by: **Weight:** **Extraction date:** **Extracted by:**

Analysis Method : SOP.T.40.090
Analytical Batch : GA031699FIL
Instrument Used : GA-Filth/Foreign Material Microscope
Analyzed Date : N/A
Reviewed On : 09/24/21 14:59:57
Batch Date : 09/23/21 14:16:40

Filth and foreign material inspection is performed by visual inspection utilizing naked eye and microscope technologies in accordance with F.S. Rule 64ER20-39.

Water Activity — PASSED

Analyte	LOD	Units	Result	P/F	Action Level
Water Activity	0.01	aw	0.474		0.85

Analyzed by: **Weight:** **Extraction date:** **Extracted by:**

Analysis Method : SOP.T.40.019
Analytical Batch : GA031694WAT
Instrument Used : GA-085 Rotronic HygroPalm
Analyzed Date : N/A
Reviewed On : 09/24/21 15:08:31
Batch Date : 09/23/21 13:53:14

Water Activity is performed using a Rotronic HygroPalm HP 23-AW in accordance with F.S. Rule 64ER20-39.

Miranda MacDonald
Lab Director

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Signature
09/28/21