



Certificate of Analysis

COMPLIANCE FOR RETAIL

Sample: GA30510001-004
Harvest/Lot ID: HZFCLG119-2305-20578
Batch#: MH-48D-030923-FF
Cultivation Facility: Gainesville Cultivation
Processing Facility: Gainesville Processing
Source Facility: Gainesville Cultivation
Seed to Sale#: HZFCLG119-2305-20578
Batch Date: 05/02/23
Sample Size Received: 16 gram
Total Amount: 2500 units
Retail Product Size: 1 gram
Ordered: 05/10/23
Sampled: 05/10/23
Completed: 05/12/23
Sampling Method: SOP.T.20.010

May 12, 2023 | Liberty Health Sciences, FL

18770 N CR 225
Gainesville, FL, 32609, US



PASSED

Pages 1 of 6

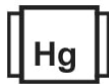
PRODUCT IMAGE



SAFETY RESULTS



Pesticides
PASSED



Heavy Metals
PASSED



Microbials
PASSED



Mycotoxins
PASSED



Residuals Solvents
PASSED



Filtration
PASSED



Water Activity
PASSED



Moisture
NOT TESTED



Terpenes
TESTED

MISC.



Cannabinoid

PASSED



Total THC

82.031%

Total THC/Container : 820.31 mg



Total CBD

0.185%

Total CBD/Container : 1.85 mg



Total Cannabinoids

95.949%

Total Cannabinoids/Container : 959.49 mg

	D9-THC	THCA	CBD	CBDA	D8-THC	CBG	CBGA	CBN	THCV	CBDV	CBC
%	2.803	90.34	ND	0.212	ND	0.274	2.32	ND	ND	ND	ND
mg/unit	28.03	903.4	ND	2.12	ND	2.74	23.2	ND	ND	ND	ND
LOD	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001
%	%	%	%	%	%	%	%	%	%	%	%

Analized by:
2507, 3192

Weight:
0.1014g

Extraction date:
05/10/23 13:00:41

Extracted by:
3655

Analysis Method : SOP.T.40.031, SOP.T.30.031
 Analytical Batch : GA059957POT
 Instrument Used : GA-HPLC-001 2030C Plus (Derivative)
 Analyzed Date : 05/10/23 15:36:25

Reviewed On : 05/11/23 08:41:04
 Batch Date : 05/09/23 16:30:26

Dilution : 400
 Reagent : 030323.R43; 010421.44; 030823.07; 041423.R19; 032823.R09
 Consumables : GA-169; 947.109; 21/05/14; 9291.271; LLS-00-0005; 12543-226CD-226C; R0NB32898; 46610-762A; 944C4 944; 209598; 212516
 Pipette : GA-003; GA-005; GA-007; GA-177

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

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Miranda MacDonald
 Lab Director

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


 Signature
 05/12/23



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

Kaycha Labs

Motorhead #15 1g Live Sugar
Motorhead #15
Matrix : Derivative
Type: Sugar Wax



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

Sample : GA30510001-004

Harvest/Lot ID: HZFCLG119-2305-20578

Batch# : MH-48D-030923-FF

Sampled : 05/10/23

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Terpenes

TESTED

Terpenes	LOD (%)	mg/unit	%	Result (%)	Terpenes	LOD (%)	mg/unit	%	Result (%)
TOTAL TERPENES	0.007	28.41	2.841		FARNESENE	0.001	1.38	0.138	
TOTAL TERPINEOL	0.007	ND	ND		ALPHA-HUMULENE	0.007	1.69	0.169	
ALPHA-BISABOLOL	0.007	1.94	0.194		VALENCENE	0.007	ND	ND	
ALPHA-PINENE	0.007	7.2	0.72		CIS-NEROLIDOL	0.007	ND	ND	
CAMPHENE	0.007	ND	ND		TRANS-NEROLIDOL	0.007	ND	ND	
SABINENE	0.007	ND	ND		CARYOPHYLLENE OXIDE	0.007	<1	<0.1	
BETA-PINENE	0.007	1.63	0.163		GUAIOL	0.007	ND	ND	
BETA-MYRCENE	0.007	4.66	0.466		CEDROL	0.007	ND	ND	
ALPHA-PHELLANDRENE	0.007	ND	ND						
3-CARENE	0.007	ND	ND						
ALPHA-TERPINENE	0.007	ND	ND						
LIMONENE	0.007	2.81	0.281						
EUCALYPTOL	0.007	ND	ND						
OCIMENE	0.007	2.09	0.209						
GAMMA-TERPINENE	0.007	ND	ND						
SABINENE HYDRATE	0.007	ND	ND						
TERPINOLENE	0.007	ND	ND						
FENCHONE	0.007	ND	ND						
LINALOOL	0.007	<1	<0.1						
FENCHYL ALCOHOL	0.007	<1	<0.1						
ISOPULEGOL	0.007	ND	ND						
CAMPHOR	0.013	ND	ND						
ISOBORNEOL	0.007	ND	ND						
BORNEOL	0.013	ND	ND						
HEXAHYDROTHYMOL	0.007	ND	ND						
NEROL	0.007	ND	ND						
PULEGONE	0.007	ND	ND						
GERANIOL	0.007	ND	ND						
GERANYL ACETATE	0.007	ND	ND						
ALPHA-CEDRENE	0.007	ND	ND						
BETA-CARYOPHYLLENE	0.007	5.01	0.501						
Total (%)			2.841						

Analyzed by: 2507, 2155, 3303, 3192 Weight: 0.9839g Extraction date: 05/10/23 14:15:49 Extracted by: 3575
Analysis Method: SOP.T.30.061A.FL, SOP.T.40.061A.FL
Analytical Batch: GA059955TER
Instrument Used: GA-GCMS-005 QP2020NX (Derivative)
Analyzed Date: 05/10/23 15:29:08
Reviewed On: 05/12/23 09:00:16
Batch Date: 05/09/23 16:07:04
Dilution: 50
Reagent: 021123.R06; 032223.04; 010421.44
Consumables: 212823; 947.109; 21/05/14; 9291.271; LLS-00-0005; 89012-780; RONB32898; 46610-762A; 031C4 - 031 J; 206639
Pipette: GA-003; GA-005; GA-177; GA-211 Dispenser
Terpenoid testing is performed utilizing Gas Chromatography Mass Spectrometry. For all Flower samples, the Total Terpenes % is dry-weight corrected.

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Miranda
MacDonald
Lab Director

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ISO 17025 Accreditation # ISO/IEC
17025:2017 Accreditation P/LA-
Testing 97164

Signature
05/12/23



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Pesticides

PASSED

Pesticide	LOD	Units	Action Level	Pass/Fail	Result	Pesticide	LOD	Units	Action Level	Pass/Fail	Result
TOTAL CONTAMINANT LOAD (PESTICIDES)	0.01	ppm	5	PASS	ND	OXAMYL	0.01	ppm	0.5	PASS	ND
TOTAL DIMETHOMORPH	0.01	ppm	0.2	PASS	ND	PACLOBUTRAZOL	0.01	ppm	0.1	PASS	ND
TOTAL PERMETHRIN	0.01	ppm	0.1	PASS	ND	PHOSMET	0.01	ppm	0.1	PASS	ND
TOTAL PYRETHRINS	0.01	ppm	0.5	PASS	ND	PIPERONYL BUTOXIDE	0.01	ppm	3	PASS	ND
TOTAL SPINETORAM	0.01	ppm	0.2	PASS	ND	PRALLETHRIN	0.01	ppm	0.1	PASS	ND
TOTAL SPINOSAD	0.01	ppm	0.1	PASS	ND	PROPICONAZOLE	0.01	ppm	0.1	PASS	ND
ABAMECTIN B1A	0.01	ppm	0.1	PASS	ND	PROPOXUR	0.01	ppm	0.1	PASS	ND
ACEPHATE	0.01	ppm	0.1	PASS	ND	PYRIDABEN	0.01	ppm	0.2	PASS	ND
ACEQUINOCYL	0.01	ppm	0.1	PASS	ND	SPIROMESIFEN	0.01	ppm	0.1	PASS	ND
ACETAMIPRID	0.01	ppm	0.1	PASS	ND	SPIROTETRAMAT	0.01	ppm	0.1	PASS	ND
ALDICARB	0.01	ppm	0.1	PASS	ND	SPIROXAMINE	0.01	ppm	0.1	PASS	ND
AZOXYSTROBIN	0.01	ppm	0.1	PASS	ND	TEBUCONAZOLE	0.01	ppm	0.1	PASS	ND
BIFENAZATE	0.01	ppm	0.1	PASS	ND	THIACLOPRID	0.01	ppm	0.1	PASS	ND
BIFENTHRIN	0.01	ppm	0.1	PASS	ND	THIAMETHOXAM	0.01	ppm	0.5	PASS	ND
BOSCALID	0.01	ppm	0.1	PASS	ND	TRIFLOXYSTROBIN	0.01	ppm	0.1	PASS	ND
CARBARYL	0.01	ppm	0.5	PASS	ND	PENTACHLORONITROBENZENE (PCNB) *	0.01	PPM	0.15	PASS	ND
CARBOFURAN	0.01	ppm	0.1	PASS	ND	PARATHION-METHYL *	0.01	PPM	0.1	PASS	ND
CHLORANTRANILIPROLE	0.01	ppm	1	PASS	ND	CAPTAN *	0.07	PPM	0.7	PASS	ND
CHLORMEQUAT CHLORIDE	0.01	ppm	1	PASS	ND	CHLORDANE *	0.01	PPM	0.1	PASS	ND
CHLORPYRIFOS	0.01	ppm	0.1	PASS	ND	CHLORFENAPYR *	0.01	PPM	0.1	PASS	ND
CLOFENTHINE	0.01	ppm	0.2	PASS	ND	CYFLUTHRIN *	0.05	PPM	0.5	PASS	ND
COUMAPHOS	0.01	ppm	0.1	PASS	ND	CYPERMETHRIN *	0.05	PPM	0.5	PASS	ND
DAMINOZIDE	0.01	ppm	0.1	PASS	ND						
DIAZINON	0.01	ppm	0.1	PASS	ND	Analyzed by:	Weight:	Extraction date:	Extracted by:		
DICHLORVOS	0.01	ppm	0.1	PASS	ND	795, 3303, 3192	0.2127g	05/10/23 20:37:32	795		
DIMETHOATE	0.01	ppm	0.1	PASS	ND	Analysis Method : SOP.T.30.101.FL (Gainesville), SOP.T.30.102.FL (Davie), SOP.T.40.101.FL (Gainesville),					
ETHOPROPHOS	0.01	ppm	0.1	PASS	ND	SOP.T.40.102.FL (Davie)					
ETOFENPROX	0.01	ppm	0.1	PASS	ND	Analytical Batch : DA060028PES			Reviewed On : 05/12/23 08:46:37		
ETOXAZOLE	0.01	ppm	0.1	PASS	ND	Instrument Used : DA-LCMS-004 (PES)			Batch Date : 05/10/23 20:33:05		
FENHEXAMID	0.01	ppm	0.1	PASS	ND	Analyzed Date : N/A					
FENOXYCARB	0.01	ppm	0.1	PASS	ND	Dilution : 250					
FENPYROXIMATE	0.01	ppm	0.1	PASS	ND	Reagent : 050823.R10; 050923.R04; 051023.R18; 051023.R47; 042623.R45; 051023.R16; 040521.11					
FIPRONIL	0.01	ppm	0.1	PASS	ND	Consumables : 6697075-02					
FLONICAMID	0.01	ppm	0.1	PASS	ND	Pipette : DA-093; DA-094; DA-219					
FLUDIOXONIL	0.01	ppm	0.1	PASS	ND	Testing for agricultural agents is performed utilizing Liquid Chromatography Triple-Quadrupole Mass Spectrometry in accordance with F.S. Rule 64ER20-39.					
HEXYTHIAZOX	0.01	ppm	0.1	PASS	ND	Analyzed by:	Weight:	Extraction date:	Extracted by:		
IMAZALIL	0.01	ppm	0.1	PASS	ND	2155, 3303, 3192	0.9654g	05/10/23 18:05:46	3575,3655		
IMIDACLOPRID	0.01	ppm	0.4	PASS	ND	Analysis Method : SOP.T.30.151.FL (Gainesville), SOP.T.30.151A.FL (Davie), SOP.T.40.151.FL					
KRESOXIM-METHYL	0.01	ppm	0.1	PASS	ND	Analytical Batch : GA060015VOL			Reviewed On : 05/12/23 10:15:17		
MALATHION	0.01	ppm	0.2	PASS	ND	Instrument Used : GA-GCMS-006			Batch Date : 05/10/23 12:10:44		
METALAXYL	0.01	ppm	0.1	PASS	ND	Analyzed Date : 05/10/23 18:26:43					
METHIOCARB	0.01	ppm	0.1	PASS	ND	Dilution : 50					
METHOMYL	0.01	ppm	0.1	PASS	ND	Reagent : 051123.R18; 032823.R34; 011122.06					
MEVINPHOS	0.01	ppm	0.1	PASS	ND	Consumables : 947.109; 21/05/14; 9291.271; LLS-00-0005; 210419634; 296055173; 55447-U.15143701; 944C4 944j; 209598; 212516					
MYCLOBUTANIL	0.01	ppm	0.1	PASS	ND	Pipette : GA-003; GA-007; GA-177					
NALED	0.01	ppm	0.25	PASS	ND	Testing for agricultural agents is performed utilizing Gas Chromatography Triple-Quadrupole Mass Spectrometry in accordance with F.S. Rule 64ER20-39.					

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Completed : 05/12/23 Expires: 05/12/24

Sample Method : SOP.T.20.010

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Residual Solvents

PASSED

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

 Analyzed by:
 2155, 3303, 2338, 3192

 Weight:
 0.0247g

 Extraction date:
 05/10/23 16:47:35

 Extracted by:
 2155

Analysis Method : SOP.T.40.041.FL

Analytical Batch : GA060022SOL

Instrument Used : GA-GCMS-001 Headspace Solvent

Analyzed Date : 05/10/23 17:00:56

Reviewed On : 05/12/23 10:19:53

Batch Date : 05/10/23 14:57:44

Dilution : N/A

Reagent : 010421.47

Consumables : R2017.167; 854996

Pipette : GA-253

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



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Liberty Health Sciences, FL


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	Microbial	PASSED			
Analyte	LOD	Units	Result	Pass / Fail	Action Level
ECOLI SHIGELLA			Not Present	PASS	
SALMONELLA SPECIFIC GENE			Not Present	PASS	
ASPERGILLUS FLAVUS			Not Present	PASS	
ASPERGILLUS FUMIGATUS			Not Present	PASS	
ASPERGILLUS TERREUS			Not Present	PASS	
ASPERGILLUS NIGER			Not Present	PASS	
TOTAL YEAST AND MOLD	10	CFU/g	<10	PASS	100000
Analyzed by: 3721, 3303, 3192	Weight: 0.8067g	Extraction date: 05/10/23 14:21:40		Extracted by: 3793	
Analysis Method : SOP.T.40.056C, SOP.T.40.058.FL, SOP.T.40.209.FL					
Analytical Batch : GA060007MIC			Reviewed On : 05/12/23 15:23:06		
Instrument Used : GA-200 Bacterial / GA-102 Fungal Incubators			Batch Date : 05/10/23 11:00:53		
Analyzed Date : 05/11/23 09:46:07					
Dilution : 10					
Reagent : 092022.51					
Consumables : GA-186; 010205; 262202; 013209; 007109; P-21557211R					
Pipette : GA-154					
Analyzed by: 3721, 3303, 3192	Weight: 0.8067g	Extraction date: 05/10/23 14:21:40		Extracted by: 3793	
Analysis Method : SOP.T.40.208 (Gainesville), SOP.T.40.209.FL					
Analytical Batch : GA060008TYM			Reviewed On : 05/12/23 15:23:50		
Instrument Used : GA-102 Fungal Incubator (TYM)			Batch Date : 05/10/23 11:01:05		
Analyzed Date : 05/11/23 09:39:25					
Dilution : 10					
Reagent : 092022.51					
Consumables : GA-186; 007109; P-21557211R					
Pipette : GA-154					
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	ND	PASS	0.02
AFLATOXIN B1	0.002	ppm	ND	PASS	0.02
OCHRATOXIN A	0.002	ppm	ND	PASS	0.02
AFLATOXIN G1	0.002	ppm	ND	PASS	0.02
AFLATOXIN G2	0.002	ppm	ND	PASS	0.02
Analyzed by: 795, 3303, 3192	Weight: 0.2127g	Extraction date: 05/10/23 20:37:32		Extracted by: 795	
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 : DA060029MYC			Reviewed On : 05/12/23 08:50:11		
Instrument Used : DA-LCMS-004 (MYC)			Batch Date : 05/10/23 20:34:47		
Analyzed Date : N/A					
Dilution : 250					
Reagent : 050823.R10; 050923.R04; 051023.R18; 051023.R47; 042623.R45; 051023.R16; 040521.11					
Consumables : 6697075-02					
Pipette : DA-093; DA-094; DA-219					
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
TOTAL CONTAMINANT LOAD METALS					
ARSENIC	0.02	ppm	ND	PASS	0.2
CADMIUM	0.02	ppm	ND	PASS	0.2
MERCURY	0.02	ppm	ND	PASS	0.2
LEAD	0.02	ppm	ND	PASS	0.5
Analyzed by: 3721, 2507, 3303, 3192	Weight: 0.2096g	Extraction date: 05/11/23 14:01:56		Extracted by: 3571,3600,3721	
Analysis Method : SOP.T.30.082.FL, SOP.T.40.082.FL					
Analytical Batch : GA059963HEA			Reviewed On : 05/12/23 08:48:11		
Instrument Used : GA-ICPMS-002			Batch Date : 05/09/23 18:32:46		
Analyzed Date : 05/11/23 18:30:42					
Dilution : 50					
Reagent : 042723.R27; 050623.R01; 071522.04; 010421.45; 011523.R02; 110122.R06; 011523.R03; 040723.R30					
Consumables : 12532-225CD-225C; GA-194; GA-195; 209598					
Pipette : GA-012					
Heavy Metals analysis is performed using Inductively Coupled Plasma Mass Spectrometry in accordance with F.S. Rule 64ER20-39.					



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**Filth/Foreign
Material**
PASSED

Analyte	LOD	Units	Result	P/F	Action Level
Filth and Foreign Material	0.1	%	ND	PASS	1

Analyzed by: 3575, 3655, 3192	Weight: 14.0885g	Extraction date: 05/10/23 11:15:57	Extracted by: 3575
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Analysis Method : SOP.T.40.090

Analytical Batch : GA060004FIL

Instrument Used : GA-Filth/Foreign Material Microscope

Analyzed Date : N/A

Reviewed On : 05/10/23 16:24:41

Batch Date : 05/10/23 10:48:52

Dilution : N/A

Reagent : N/A

Consumables : N/A

Pipette : N/A

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	0.532	PASS	0.85

Analyzed by: 3655, 3575, 3192	Weight: 1.1222g	Extraction date: 05/10/23 14:44:01	Extracted by: 3655
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Analysis Method : SOP.T.40.019

Analytical Batch : GA060019WAT

Instrument Used : GA-085 Rotronic HygroPalm

Analyzed Date : 05/10/23 14:52:33

Reviewed On : 05/10/23 17:31:02

Batch Date : 05/10/23 12:13:33

Dilution : N/A

Reagent : N/A

Consumables : 107264

Pipette : N/A

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