



Certificate of Analysis

COMPLIANCE FOR RETAIL

Sample: GA10918001-003
Harvest/Lot ID: FSZ108 -2109 - 1372
Batch#: DF - RAKU - 2108 - 0570
Seed to Sale# FSZ108 -2109 - 1372
Batch Date: 09/14/21
Sample Size Received: 16 gram
Total Amount: 2353 gram
Retail Product Size: 1
Ordered : 09/18/21
Sampled : 09/18/21
Completed: 09/24/21
Sampling Method: SOP.T.20.010

Sep 24, 2021 | Liberty Health Sciences, FL

18770 N CR 225
Gainesville, FL, 32609, US



PASSED

Pages 1 of 6

PRODUCT IMAGE

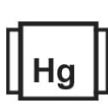


Box

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

0%

/Container : 795.515 mg



Total CBD

0%

/Container : 2.031 mg



Total Cannabinoids

0%

Total Cannabinoids/Container : 834.793 mg

	CBDV	CBDA	CBGA	CBG	CBD	THCV	CBN	D9-THC	D8-THC	CBC	THCA
%	0	0	0	1.886	0.203	0.353	0.94	79.551	0	0.544	0
mg/g	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001
LOD	%	%	%	%	%	%	%	%	%	%	%

Analyzed by:
2338

Weight:
0.1018g

Extraction date:
09/20/21 12:09:15

Extracted by:
2507

Analysis Method : SOP.T.40.031, SOP.T.30.031

Analytical Batch : GA031476POT

Instrument Used : GA-HPLC-003 2030C PDA

Analyzed Date : 09/20/21 14:22:28

Reviewed On : 09/21/21 12:29:14

Batch Date : 09/20/21 08:28:44

Dilution : 400

Reagent : 092920.16; 060220.R16; 010421.51; 060821.05; 091021.R40; 091521.R51

Consumables : 947.271; 470228-424; 9291.271; 200721; 12224-108CD-108C; RONB32898

Pipette : N/A

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
09/24/21



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

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Terpenes

TESTED

Terpenes	LOD (%)	mg/g	%	Result (%)	Terpenes	LOD (%)	mg/g	%	Result (%)
TOTAL TERPINEOL	0.007		0		BORNEOL	0.013	0.2	0.02	
CAMPHENE	0.007		0.034		GERANIOL	0.007	0.12	0.012	
BETA-MYRCENE	0.007		1.121		PULEGONE	0.007	0.33	0.033	
ALPHA-PHELLANDRENE	0.007		0.12		ALPHA-CEDRENE	0.007	0	0	
3-CARENE	0.007		0.02		ALPHA-HUMULENE	0.007	2.43	0.243	
OCIMENE	0.007		0		TRANS-NEROLIDOL	0.007	0.25	0.025	
EUCALYPTOL	0.007		0		GUAJOL	0.007	0	0	
LINALOOL	0.007		0.402		Analyzed by:	Weight:	Extraction date:	Extracted by:	
FENCHONE	0.007		0		1541	1.0085g	09/20/21 12:09:02	3057	
ISOPULEGOL	0.007		0		Analysis Method : SOP.T.30.061A.FL, SOP.T.40.061A.FL				
ISOBORNEOL	0.007		0.012		Analytical Batch : GA031478TER				
HEXAHYDROTHYMOL	0.007		0		Instrument Used : GA-GCMS-002 QP2010S				
NEROL	0.007		0		Analyzed Date : 09/20/21 15:47:54				
GERANYL ACETATE	0.007		0		Dilution : 100				
BETA-CARYOPHYLLENE	0.007		0.812		Reagent : 010421.41; 091021.R15; 010421.51				
VALENCENE	0.007		0		Consumables : 947.271; 470228-424; 9291.271; 200721; R0NB32898; 00295461; 210419634				
CIS-NEROLIDOL	0.007		0		Pipette : N/A				
CARYOPHYLLENE OXIDE	0.007		0.041		Terpenoid testing is performed utilizing Gas Chromatography Mass Spectrometry. For all Flower samples, the Total Terpenes % is dry-weight corrected.				
CEDROL	0.007		0						
FARNESENE	0.007		0						
ALPHA-BISABOLOL	0.007		0.132						
ALPHA-PINENE	0.007		0.146						
SABINENE	0.007		0						
BETA-PINENE	0.007		0.2						
ALPHA-TERPINENE	0.007		0						
LIMONENE	0.007		1.348						
GAMMA-TERPINENE	0.007		0						
TERPINOLENE	0.007		0						
SABINENE HYDRATE	0.007		0						
FENCHYL ALCOHOL	0.007		0.15						
CAMPHOR	0.013		0						
Total (%)									



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Pesticides

PASSED

Pesticide	LOD	Units	Action Level	Pass/Fail	Result	Pesticide	LOD	Units	Action Level	Pass/Fail	Result
ABAMECTIN B1A	0.01	ppm	0.1	0		PROPOXUR	0.01	ppm	0.1	0	
ACEPHATE	0.01	ppm	0.1	0		PYRETHRINS	0.05	ppm	0.5	0	
ACEQUINOCYL	0.01	ppm	0.1	0		PYRIDABEN	0.02	ppm	0.2	0.021	
ACETAMIPRID	0.01	ppm	0.1	0		SPIROMESIFEN	0.01	ppm	0.1	0	
ALDICARB	0.01	ppm	0.1	0		SPIROTETRAMAT	0.01	ppm	0.1	0	
AZOXYSTROBIN	0.01	ppm	0.1	0		SPIROXAMINE	0.01	ppm	0.1	0	
BIFENAZATE	0.01	ppm	0.1	0		TEBUCONAZOLE	0.01	ppm	0.1	0	
BIFENTHRIN	0.01	ppm	0.1	0		THIACLOPRID	0.01	ppm	0.1	0	
BOSCALID	0.01	PPM	0.1	0		THIAMETHOXAM	0.05	ppm	0.5	0	
CARBARYL	0.05	ppm	0.5	0		TOTAL CONTAMINANT LOAD (PESTICIDES)	0.05	PPM	5	0	
CARBOFURAN	0.01	ppm	0.1	0		TOTAL DIMETHOMORPH	0.02	PPM	0.2	0	
CHLORANTRANILIPROLE	0.1	ppm	1	0		TOTAL PERMETHRIN	0.01	ppm	0.1	0	
CHLORMEQUAT CHLORIDE	0.1	ppm	1	0		TOTAL SPINETORAM	0.02	PPM	0.2	0	
CHLORPYRIFOS	0.01	ppm	0.1	0		TOTAL SPINOSAD	0.01	ppm	0.1	0	
CLOFENTEZINE	0.02	ppm	0.2	0		TRIFLOXYSTROBIN	0.01	ppm	0.1	0	
COUMAPHOS	0.01	ppm	0.1	0		PENTACHLORONITROBENZENE (PCNB) *	0.01	PPM	0.15	0	
DAMINOZIDE	0.01	ppm	0.1	0		PARATHION-METHYL *	0.01	PPM	0.1	0	
DIAZINON	0.01	ppm	0.1	0		CAPTAN *	0.025	PPM	0.7	0	
DICHLORVOS	0.01	ppm	0.1	0		CHLORDANE *	0.01	PPM	0.1	0	
DIMETHOATE	0.01	ppm	0.1	0		CHLORFENAPYR *	0.01	PPM	0.1	0	
ETHOPROPHOS	0.01	ppm	0.1	0		CYFLUTHRIN *	0.01	PPM	0.5	0	
ETOFENPROX	0.01	ppm	0.1	0		CYPERMETHRIN *	0.01	PPM	0.5	0	
ETOXAZOLE	0.01	ppm	0.1	0							
FENHEXAMID	0.01	ppm	0.1	0							
FENOXICARB	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							

Analyzed by: 1850 Weight: 0.9987g Extraction date: 09/20/21 03:09:25 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 : GA031481PES Reviewed On : 09/23/21 11:55:29
 Instrument Used : GA-LCMS-001 PES Batch Date : 09/20/21 08:31:13
 Analyzed Date : 09/20/21 16:51:16
 Dilution : 10
 Reagent : 091621.R17; 061521.10; 091521.R48; 091521.R39
 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 : GA031640VOL Reviewed On : 09/24/21 14:42:43
 Instrument Used : GA-GCMS-003 Batch Date : 09/22/21 14:34:39
 Analyzed Date : N/A
 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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Sample Method : SOP.T.20.010

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Residual Solvents

PASSED

Solvents	LOD	Units	Action Level	Pass/Fail	Result
METHANOL	25	ppm	250		0
ETHANOL	500	ppm	5000		0
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		15.045
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:
 1541

 Weight:
 0.0212g

 Extraction date:
 09/20/21 03:09:04

 Extracted by:
 650

Analysis Method : SOP.T.40.041.FL

Analytical Batch : GA031526SOL

Instrument Used : GA-GCMS-001 Headspace Solvent

Analyzed Date : 09/20/21 15:01:26

Reviewed On : 09/21/21 10:29:51

Batch Date : 09/20/21 11:34:04

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.



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<div> Microbial</div> <div>PASSED</div>						<div><div></div> Mycotoxins</div> <div>PASSED</div>					
Analyte	LOD	Units	Result	Pass / Fail	Action Level	Analyte	LOD	Units	Result	Pass / Fail	Action Level
ESCHERICHIA COLI SHIGELLA SPP	1726	RFU	0		1726	AFLATOXIN B2	0.002	ppm	0		0.02
SALMONELLA SPECIFIC GENE	10000	RFU	0		10000	AFLATOXIN B1	0.002	ppm	0		0.02
ASPERGILLUS FLAVUS	10000	RFU	0		10000	OCHRATOXIN A	0.002	ppm	0		0.02
ASPERGILLUS FUMIGATUS	10000	RFU	0		10000	AFLATOXIN G1	0.002	ppm	0		0.02
ASPERGILLUS TERREUS	10000	RFU	0		10000	AFLATOXIN G2	0.002	ppm	0		0.02
ASPERGILLUS NIGER	10000	RFU	0		10000						
TOTAL YEAST AND MOLD	10	CFU	<10		100000						
Analyzed by: 2119	Weight: 1.13g	Extraction date: 09/18/21 10:09:21	Extracted by: 1828			Analyzed by: 1850	Weight: 0.9987g	Extraction date: N/A	Extracted by: N/A		
Analysis Method : SOP.T.40.056C, SOP.T.40.058.FL, SOP.T.40.209.FL						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 : GA031466MIC			Reviewed On : 09/21/21 13:42:23			Analytical Batch : GA031540MYC			Reviewed On : 09/23/21 11:53:48		
Instrument Used : GA-093 PathogenDx Scanner (MIC)			Batch Date : 09/18/21 18:23:12			Instrument Used : GA-LCMS-001 MYC			Batch Date : 09/20/21 16:10:50		
Analyzed Date : 09/20/21 11:18:10						Analyzed Date : N/A					
Dilution : 10						Dilution : ND; ND; ND; ND; ND					
Reagent : 072821.17; 091520.07						Reagent : Aflatoxin G2; Aflatoxin G1; Aflatoxin B2; Aflatoxin B1; Ochratoxin A					
Consumables : 004103; 006103; 003102						Consumables : 0.02; 0.02; 0.02; 0.02; 0.02					
Pipette : N/A						Pipette : N/A					
Mycotoxins testing utilizing Liquid Chromatography with Triple-Quadrupole Mass Spectrometry in accordance with F.S. Rule 64ER20-39.											
<div><div><div>Hg</div></div></div>						<div>Heavy Metals</div> <div>PASSED</div>					
Metal						LOD Units Result Pass / Fail Action Level					

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

<div><div><div>Hg</div></div></div> Heavy Metals			PASSED		
Metal	LOD	Units	Result	Pass / Fail	Action Level
ARSENIC	0.02	PPM	0		0.2
CADMIUM	0.02	PPM	0		0.2
MERCURY	0.02	PPM	0.001		0.2
LEAD	0.05	PPM	0.003		0.5
Analyzed by: 2338	Weight: 0.2564g	Extraction date: 09/21/21 09:09:00	Extracted by: 2820		
Analysis Method : SOP.T.30.082.FL, SOP.T.40.082.FL			Reviewed On : 09/22/21 10:11:05		
Analytical Batch : GA031480HEA			Batch Date : 09/20/21 08:30:10		
Instrument Used : GA-ICPMS-002					
Analyzed Date : 09/20/21 16:00:23					
Dilution : 100					
Reagent : 082421.R51; 091521.R52; 081321.R24; 082421.R46; 090121.R41; 091421.R32; 010421.51; 061621.03					
Consumables : CGR0114; 12224-108CD-108C					
Pipette : N/A					
Heavy Metals analysis is performed using Inductively Coupled Plasma Mass Spectrometry in accordance with F.S. Rule 64ER20-39.					



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

Kaycha Labs

Raspberry Kush 1g Distillate Syringe
Raspberry Kush
Matrix : Derivative



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Page 6 of 6



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:
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Analysis Method : SOP.T.40.090

Analytical Batch : GA031462FIL

Instrument Used : GA-Filth/Foreign Material Microscope

Analyzed Date : N/A

Reviewed On : 09/20/21 09:26:44

Batch Date : 09/18/21 15:46:09

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	0.522		0.85

Analyzed by:	Weight:	Extraction date:	Extracted by:
--------------	---------	------------------	---------------

Analysis Method : SOP.T.40.019

Analytical Batch : GA031473WAT

Instrument Used : GA-085 Rotronic HygroPalm

Analyzed Date : N/A

Reviewed On : 09/20/21 15:02:14

Batch Date : 09/20/21 08:24:29

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

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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
09/24/21