



Certificate of Analysis

COMPLIANCE FOR RETAIL

Sample:GA10122002-007
Harvest/Lot ID: HVFV100-210114-01
Batch#: DF-GRCR-010421
Seed to Sale# HVFV100-210114-01
Batch Date: 01/14/21
Sample Size Received: 15.5 gram
Total Amount: 2998 units
Retail Product Size: .4870
Ordered : 01/22/21
Sampled : 01/22/21
Completed: 04/13/21
Sampling Method: SOP.T.20.010

Apr 13, 2021 | Liberty Health Sciences, FL

18770 N CR 225
Gainesville, FL, 32609, US



PASSED

Pages 1 of 6

PRODUCT IMAGE

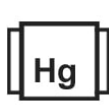


Box

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 : 382.112 mg



Total CBD

0%

/Container : 2.494 mg



Total Cannabinoids

0%

Total Cannabinoids/Container : 400.95 mg

	CBDV	CBDA	CBGA	CBG	CBD	THCV	CBN	D9-THC	D8-THC	CBC	THCA
%	0	0	0	1.711	0.512	0.666	0.977	78.462	0	0.001	0.001
mg/unit	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001
LOD	%	%	%	%	%	%	%	%	%	%	%

Analized by:
2338

Weight:
0.1115g

Extraction date:
01/25/21 11:01:07

Extracted by:
1791

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

Analytical Batch : GA021524POT

Instrument Used : GA-HPLC-001 2030C Plus (Carl)

Analyzed Date : 01/25/21 14:56:06

Reviewed On : 01/26/21 13:44:26

Batch Date : 01/25/21 07:38:54

Dilution : 40

Reagent : 110519.13; 010621.26; 011921.R45; 012221.R09

Consumables : 282066106; VAV-09-1020 Lot# 947.077; 6970145500298; 190624060; 16466-042

Pipette : N/A

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

This Kaycha Labs Certification shall not be reproduced, unless in its entirety, without written approval from Kaycha Labs. The results relate only to the material or product analyzed. ND=Not Detected, ppm=Parts Per Million, ppb=Parts Per Billion, RSD=Relative Standard Deviation. Limit of Detection (LOD) and Limit Of Quantitation (LOQ) are terms used to describe the smallest concentration that can be detected and reliably measured by an analytical procedure, respectively. Action Levels are State determined thresholds based on F.S. Rule 64ER20-39 and F.S. Rule 5K-4. The Measurement of Uncertainty (MU) error is available from the lab upon request. The "Decision Rule" for pass/fail does not include the MU. Any calculated totals may contain rounding errors.

Miranda MacDonald
Lab Director

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

Signature
04/13/21



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 : GA10122002-007
 Harvest/Lot ID: HVFV100-210114-01

 Batch# : DF-GRCR-010421 Sample Size Received : 15.5 gram
 Sampled : 01/22/21 Total Amount : 2998 units
 Ordered : 01/22/21 Completed : 04/13/21 Expires: 04/13/22
 Sample Method : SOP.T.20.010

Page 2 of 6

Terpenes

TESTED

Terpenes	LOD (%)	mg/unit	%	Result (%)	Terpenes	LOD (%)	mg/unit	%	Result (%)
CAMPENE	0.007	0			TERPINEOL	0.007	0.277	0.057	
BETA-MYRCENE	0.007	1.046			GERANIOL	0.007	0	0	
ALPHA-PHELLANDRENE	0.007	0			PULEGONE	0.007	0	0	
3-CARENE	0.007	0			ALPHA-CEDRENE	0.007	0	0	
OCIMENE	0.007	0			ALPHA-HUMULENE	0.007	1.037	0.213	
EUCALYPTOL	0.007	0			TRANS-NEROLIDOL	0.007	0	0	
LINALOOL	0.007	0.157			GUAJOL	0.007	0	0	
FENCHONE	0.007	0			Analyzed by: 2155 Weight: 1.0135g Extraction date: 01/25/21 09:01:08 Extracted by: 1791				
ISOPULEGOL	0.007	0			Analysis Method : SOP.T.30.061A.FL, SOP.T.40.061A.FL				
ISOBORNEOL	0.007	0			Analytical Batch : GA021520TER				
HEXAHYDROTHYMOL	0.007	0			Instrument Used : GA-GCMS-002 QP2010S				
NEROL	0.007	0			Analyzed Date : N/A				
GERANYL ACETATE	0.007	0			Dilution : 10				
BETA-CARYOPHYLLENE	0.007	0.772			Reagent : 122320.03				
VALENCENE	0.007	0.34			Consumables : 282066106; VAV-09-1020 Lot# 947.077; 6970145500298; P734631 / P7411895; 16466-042				
CIS-NEROLIDOL	0.007	0			Pipette : N/A				
CARYOPHYLLENE OXIDE	0.007	0.036			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	0.161							
ALPHA-PINENE	0.007	0.246							
SABINENE	0.007	0							
BETA-PINENE	0.007	0.097							
ALPHA-TERPINENE	0.007	0							
LIMONENE	0.007	0.434							
GAMMA-TERPINENE	0.007	0							
TERPINOLENE	0.007	0.003							
SABINENE HYDRATE	0.007	0							
FENCHYL ALCOHOL	0.007	0.03							
CAMPHOR	0.013	0							
BORNEOL	0.013	0							
Total (%)									



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 : GA10122002-007
 Harvest/Lot ID: HVFV100-210114-01

 Batch# : DF-GRCR-010421 Sample Size Received : 15.5 gram
 Sampled : 01/22/21 Total Amount : 2998 units
 Ordered : 01/22/21 Completed : 04/13/21 Expires: 04/13/22
 Sample Method : SOP.T.20.010

Page 3 of 6

<div>  Pesticides </div>					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	PYRETHRINS	0.05	ppm	0.5	0
ACEPHATE	0.01	ppm	0.1	0	PYRIDABEN	0.02	ppm	0.2	0
ACEQUINOCYL	0.01	ppm	0.1	0	SPIROMESIFEN	0.01	ppm	0.1	0
ACETAMIPRID	0.01	ppm	0.1	0	SPIROTETRAMAT	0.01	ppm	0.1	0
ALDICARB	0.01	ppm	0.1	0	SPIROXAMINE	0.01	ppm	0.1	0
AZOXYSTROBIN	0.01	ppm	0.1	0	TEBUCONAZOLE	0.01	ppm	0.1	0
BIFENAZATE	0.01	ppm	0.1	0	THIACLOPRID	0.01	ppm	0.1	0
BIFENTHRIN	0.01	ppm	0.1	0	THIAMETHOXAM	0.05	ppm	0.5	0
BOSCALID	0.01	PPM	0.1	0	TOTAL CONTAMINANT LOAD (PESTICIDES)	0.1	PPM	5	0
CARBARYL	0.05	ppm	0.5	0	TOTAL DIAZINON	0.01	PPM	0.1	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
DICHLORVOS	0.01	ppm	0.1	0	CAPTAN *	0.025	PPM	0.7	0
DIMETHOATE	0.01	ppm	0.1	0	CHLORDANE *	0.01	PPM	0.1	0
ETHOPROPHOS	0.01	ppm	0.1	0	CHLORFENAPYR *	0.01	PPM	0.1	0
ETOFENPROX	0.01	ppm	0.1	0	CYFLUTHRIN *	0.01	PPM	0.5	0
ETOXAZOLE	0.01	ppm	0.1	0	CYPERMETHRIN *	0.01	PPM	0.5	0
FENHEXAMID	0.01	ppm	0.1	0					
FENOXYCARB	0.01	ppm	0.1	0	Analyzed by:	Weight:	Extraction date:	Extracted by:	
FENPYROXIMATE	0.01	ppm	0.1	0	1850	1.0075g	01/25/21 12:01:12	2206	
FIPRONIL	0.01	ppm	0.1	0					
FLONICAMID	0.01	ppm	0.1	0	Analysis Method : SOP.T.30.101.FL (Gainesville), SOP.T.30.102.FL (Davie), SOP.T.40.101.FL (Gainesville),				
FLUDIOXONIL	0.01	ppm	0.1	0	SOP.T.40.102.FL (Davie)				
HEXYTHIAZOX	0.01	ppm	0.1	0	Analytical Batch : GA021552PES		Reviewed On : 01/26/21 10:24:38		
IMAZALIL	0.01	ppm	0.1	0	Instrument Used : GA-LCMS-001 Pes		Batch Date : 01/25/21 09:06:14		
IMIDACLOPRID	0.04	ppm	0.4	0	Analyzed Date : 01/25/21 16:44:22				
KRESOXIM-METHYL	0.01	ppm	0.1	0	Dilution : 10				
MALATHION	0.02	ppm	0.2	0	Reagent : 011321.R05; 011321.R04; 011921.R39				
METALAXYL	0.01	ppm	0.1	0	Consumables : P734631 / P7411895; 1; 947.077; 9291.179				
METHIOCARB	0.01	ppm	0.1	0	Pipette : N/A				
METHOMYL	0.01	ppm	0.1	0	Testing for agricultural agents is performed utilizing Liquid Chromatography Triple-Quadrupole Mass Spectrometry in accordance with F.S. Rule 64ER20-39.				
MEVINPHOS	0.01	ppm	0.1	0					
MYCLOBUTANIL	0.01	ppm	0.1	0	Analyzed by:	Weight:	Extraction date:	Extracted by:	
NALED	0.025	ppm	0.25	0	SOP.T.30.151.FL (Gainesville); SOP.T.30.151A.FL (Davie); SOP.T.40.151.FL				
OXAMYL	0.05	ppm	0.5	0	Analytical Batch : GA021572VOL		Reviewed On : 01/26/21 10:46:14		
PACLOBUTRAZOL	0.01	ppm	0.1	0	Instrument Used : GA-GCMS-003 Triple Quad Pest (Indica)		Batch Date : 01/25/21 11:12:26		
PHOSMET	0.01	ppm	0.1	0	Analyzed Date : 01/26/21 06:09:13				
PIPERONYL BUTOXIDE	0.3	ppm	3	0	Testing for agricultural agents is performed utilizing Gas Chromatography Triple-Quadrupole Mass Spectrometry in accordance with F.S. Rule 64ER20-39.				
PRALLETHRIN	0.01	ppm	0.1	0					
PROPICONAZOLE	0.01	ppm	0.1	0					
PROPOXUR	0.01	ppm	0.1	0					



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 : GA10122002-007

Harvest/Lot ID: HVFV100-210114-01

Batch# : DF-GRCR-010421

Sampled : 01/22/21

Ordered : 01/22/21

Sample Size Received : 15.5 gram

Total Amount : 2998 units

Completed : 04/13/21 Expires: 04/13/22

Sample Method : SOP.T.20.010

Page 4 of 6



Residual Solvents

PASSED

Solvents	LOD	Units	Action Level	Pass/Fail	Result
METHANOL	25	ppm	250		9.912
ETHANOL	500	ppm	5000		156.539
PENTANES (N-PENTANE)	75	ppm	750		0
ETHYL ETHER	50	ppm	500		0
ACETONE	75	ppm	750		12.737
2-PROPANOL	50	ppm	500		1.829
ACETONITRILE	6	ppm	60		0.458
DICHLOROMETHANE	12.5	ppm	125		0
N-HEXANE	25	ppm	250		19.126
ETHYL ACETATE	40	ppm	400		0
BENZENE	0.1	ppm	1		0.003
HEPTANE	500	ppm	5000		0
TOLUENE	15	ppm	150		3.458
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:
 0.0202g

 Extraction date:
 01/25/21 03:01:06

 Extracted by:
 2155

Analysis Method : SOP.T.40.041.FL

Analytical Batch : GA021510SOL

Instrument Used : GA-GCMS-001 Headspace Solvent

Analyzed Date : 01/23/21 15:22:25

Reviewed On : 01/26/21 15:16:15

Batch Date : 01/22/21 17:27:50

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.



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 : GA10122002-007
 Harvest/Lot ID: HVFV100-210114-01

 Batch# : DF-GRCR-010421 Sample Size Received : 15.5 gram
 Total Amount : 2998 units
 Sampled : 01/22/21 Completed : 04/13/21 Expires: 04/13/22
 Ordered : 01/22/21 Sample Method : SOP.T.20.010

Page 5 of 6

Microbial PASSED						Mycotoxins PASSED					
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 B1	0.002	ppm	0		0.02
SALMONELLA SPECIFIC GENE	10000	RFU	0		10000	AFLATOXIN B2	0.002	ppm	0		0.02
ASPERGILLUS FLAVUS	10000	RFU	0		10000	AFLATOXIN G1	0.002	ppm	0		0.02
ASPERGILLUS FUMIGATUS	10000	RFU	0		10000	AFLATOXIN G2	0.002	ppm	0		0.02
ASPERGILLUS TERREUS	10000	RFU	0		10000	TOTAL OCHRATOXIN A	0.002	PPM	0		0.02
ASPERGILLUS NIGER	10000	RFU	0		10000						
TOTAL YEAST AND MOLD	10	CFU	<10		100000						
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 : GA021503MIC						Analytical Batch : GA021574MYC					
Instrument Used : GA-093 PathogenDx Scanner (MIC)						Instrument Used : GA-LCMS-001 MYC					
Analyzed Date : N/A						Analyzed Date : 01/25/21 16:44:31					
Dilution : 10						Dilution : ND; ND; ND; ND; ND					
Reagent : 110320.31						Reagent : Aflatoxin G2; Aflatoxin G1; Aflatoxin B2; Aflatoxin B1; Total Ochratoxin A					
Consumables : 001001; 001001; 002005						Consumables : 0.02; 0.02; 0.02; 0.02; 0.02					
Pipette : N/A						Pipette : N/A					
Analysis Method : SOP.T.40.208 (Gainesville), SOP.T.40.209.FL						Analysis Method : SOP.T.30.082.FL, SOP.T.40.082.FL					
Analytical Batch : GA021504TYM						Analytical Batch : GA021664HEA					
Instrument Used : GA-093 PathogenDx Scanner (QUANT)						Instrument Used : GA-ICPMS-001-DER (Ice Princess)					
Analyzed Date : N/A						Analyzed Date : N/A					
Total yeast and mold testing is performed utilizing MPN and traditional culture based techniques in accordance with F.S. Rule 64ER20-39.						Heavy Metals analysis is performed using Inductively Coupled Plasma 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		0.2
CADMIUM	0.02	PPM	0		0.2
MERCURY	0.02	PPM	0.002		0.2
LEAD	0.05	PPM	0.02		0.5
Analysis Method : SOP.T.30.082.FL, SOP.T.40.082.FL					
Analytical Batch : GA021664HEA					
Instrument Used : GA-ICPMS-001-DER (Ice Princess)					
Analyzed Date : N/A					
Dilution : 50					
Reagent : 092920.39; 012121.R22; 012621.R10; 110519.12; 081420.12; 012021.R12; 011921.R44					
Consumables : 190624060; 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.					



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

Kaycha Labs

Green Crack 400mg 510 cartridge
Green Crack
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 : GA10122002-007

Harvest/Lot ID: HVFV100-210114-01

Batch# : DF-GRCR-010421

Sampled : 01/22/21

Ordered : 01/22/21

Sample Size Received : 15.5 gram

Total Amount : 2998 units

Completed : 04/13/21 Expires: 04/13/22

Sample Method : SOP.T.20.010

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:

Analysis Method : SOP.T.40.090

Analytical Batch : GA021508FIL

Instrument Used : GA-Filth/Foreign Material Microscope

Analyzed Date : N/A

Reviewed On : 01/25/21 07:49:33

Batch Date : 01/22/21 16:11:15

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	0.412		0.85

Analyzed by: Weight: Extraction date: Extracted by:

Analysis Method : SOP.T.40.019

Analytical Batch : GA021516WAT

Instrument Used : GA-125 Rotronic HygroPalm

Analyzed Date : N/A

Reviewed On : 01/26/21 09:15:02

Batch Date : 01/23/21 13:25:01

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

This Kaycha Labs Certification shall not be reproduced, unless in its entirety, without written approval from Kaycha Labs. The results relate only to the material or product analyzed. ND=Not Detected, ppm=Parts Per Million, ppb=Parts Per Billion, RSD=Relative Standard Deviation. Limit of Detection (LOD) and Limit Of Quantitation (LOQ) are terms used to describe the smallest concentration that can be detected and reliably measured by an analytical procedure, respectively. Action Levels are State determined thresholds based on F.S. Rule 64ER20-39 and F.S. Rule 5K-4. The Measurement of Uncertainty (MU) error is available from the lab upon request. The "Decision Rule" for pass/fail does not include the MU. Any calculated totals may contain rounding errors.

**Miranda
MacDonald**
Lab Director

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

Signature
04/13/21