



Certificate of Analysis

COMPLIANCE FOR RETAIL

Sample: DA01215021-007
Harvest/Lot ID: DPFV101-201208-01
Batch#: DF-CACI-112020
Seed to Sale#: DPFV101-201208-01
Batch Date: 12/08/20
Sample Size Received: 16 gram
Total Amount: 2292 units
Retail Product Size: .9323
Ordered : 12/15/20
Sampled : 12/15/20
Completed: 12/21/20
Sampling Method: SOP.T.20.010

PASSED

Dec 21, 2020 | Liberty Health Sciences, FL

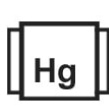
18770 N CR 225
Gainesville, FL, 32609, US


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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 : 774.639 mg


Total CBD
0%

CBD/Container : 3.384 mg


Total Cannabinoids
0%

Total Cannabinoids/Container : 806.887 mg

	CBDV	CBDA	CBGA	CBG	CBD	THCV	CBN	D9-THC	D8-THC	CBC	THCA	TOTAL CAN NABINOIDS	TOTAL CBD	TOTAL THC
%	0	0	0	1.757	0.363	0.334	0.856	83.089	0	0.149	0	0	0	0
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	%	%	%	%	%	%	%	%	%	%	%	%	%	%

Analyzed by:
450

Weight:
0.1056g

Extraction date:
12/16/20 02:12:07

Extracted by:
1823

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

Analytical Batch : DA019970POT

Instrument Used : DA-LC-003

Analyzed Date : 12/16/20 20:36:40

Reviewed On : 12/17/20 13:37:29

Batch Date : 12/16/20 08:40:10

Dilution : 400

Reagent : 110520.33; 121020.R11; 121020.R10; 110220.45

Consumables : 280670723; 11989-024CC-024; 76262-590; 914C4-914AK; 929C6-929H

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

Sample : DA01215021-007
Harvest/Lot ID: DPFV101-201208-01

Batch# : DF-CACI-112020 Sample Size Received : 16 gram
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Sample Method : SOP.T.20.010

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Terpenes				TESTED			
Terpenes	LOD (%)	mg/unit %	Result (%)	Terpenes	LOD (%)	mg/unit %	Result (%)
ALPHA-HUMULENE	0.007	0.064		EUCALYPTOL	0.007	0 0	
ALPHA-CEDRENE	0.007	0		ISOBORNEOL	0.007	0 0	
SABINENE	0.007	0		HEXAHYDROTHYMOL	0.007	0 0	
SABINENE HYDRATE	0.007	0		FENCHYL ALCOHOL	0.007	1.584 0.17	
TERPINEOL	0.007	0.25		3-CARENE	0.007	0.018 0.002	
TERPINOLENE	0.007	0.036		CIS-NEROLIDOL	0.007	0 0	
BETA-CARYOPHYLLENE	0.007	0.984		ISOPULEGOL	0.007	0 0	
TRANS-NEROLIDOL	0.007	0		Analyzed by: 1351 Weight: 0.9483g Extraction date: 12/16/20 01:12:34 Extracted by: 1351 Analysis Method : SOP.T.30.061A.FL, SOP.T.40.061A.FL Analytical Batch : DA0199767ER Reviewed On : 12/18/20 09:02:37 Instrument Used : DA-GCMS-005 Batch Date : 12/16/20 09:17:44 Analyzed Date : 12/16/20 15:54:50 Dilution : 10 Reagent : 121420.R01; 121420.R02; 111320.R15; 120820.R29 Consumables : 287035261; 76262-590 Pipette : N/A Terpenoid testing is performed utilizing Gas Chromatography Mass Spectrometry. For all Flower samples, the Total Terpenes % is dry-weight corrected.			
VALENCENE	0.007	0					
ALPHA-BISABOLOL	0.007	0.157					
CARYOPHYLLENE OXIDE	0.007	0.034					
CAMPHOR	0.013	0					
CAMPHENE	0.007	0.03					
BORNEOL	0.013	0					
BETA-PINENE	0.007	0.294					
BETA-MYRCENE	0.007	0.964					
ALPHA-TERPINENE	0.007	0					
ALPHA-PINENE	0.007	0.201					
CEDROL	0.007	0					
PULEGONE	0.007	0					
ALPHA-PHELLANDRENE	0.007	0					
OCIMENE	0.007	0					
NEROL	0.007	0					
LINALOOL	0.007	0.422					
LIMONENE	0.007	1.859					
GUAIOL	0.007	0.002					
GERANYL ACETATE	0.007	0					
GERANIOL	0.007	0.011					
GAMMA-TERPINENE	0.007	0					
FENCHONE	0.007	0					
FARNESENE	0.007	0					
Total (%)							



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Ordered : 12/15/20

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<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	PROPICONAZOLE	0.01	ppm	0.1	0
ACEPHATE	0.01	ppm	0.1	0	PROPOXUR	0.01	ppm	0.1	0
ACEQUINOCYL	0.01	ppm	0.1	0	PYRETHRINS	0.05	ppm	0.5	0
ACETAMIPRID	0.01	ppm	0.1	0	PYRIDABEN	0.02	ppm	0.2	0
ALDICARB	0.01	ppm	0.1	0	SPINETORAM	0.02	PPM	0.2	0
AZOXYSTROBIN	0.01	ppm	0.1	0	SPIROMESIFEN	0.01	ppm	0.1	0
BIFENAZATE	0.01	ppm	0.1	0	SPIROTETRAMAT	0.01	ppm	0.1	0.001
BIFENTHRIN	0.01	ppm	0.1	0	SPIROXAMINE	0.01	ppm	0.1	0
BOSCALID	0.01	PPM	0.1	0	TEBUCONAZOLE	0.01	ppm	0.1	0
CARBARYL	0.05	ppm	0.5	0	THIACLOPRID	0.01	ppm	0.1	0
CARBOFURAN	0.01	ppm	0.1	0	THIAMETHOXAM	0.05	ppm	0.5	0
CHLORANTRANILIPROLE	0.1	ppm	1	0	TOTAL CONTAMINANT LOAD (PESTICIDES)	0.01	PPM	5	0
CHLORMEQUAT CHLORIDE	0.1	ppm	1	0	TOTAL PERMETHRIN	0.01	ppm	0.1	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
DIAZANON	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
DIMETHOMORPH	0.02	ppm	0.2	0	CYFLUTHRIN *	0.01	PPM	0.5	0
ETHOPROPHOS	0.01	ppm	0.1	0	CYPERMETHRIN *	0.01	PPM	0.5	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					

Analyzed by:	Weight:	Extraction date:	Extracted by:
S85	0.2630g	12/16/20 02:12:52	1082
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 : DA019982PES			
Instrument Used : DA-LCMS-003 (PES)			
Analyzed Date : 12/16/20 20:21:27			
Dilution : 25			
Reagent : 111120.R03			
Consumables : 6538048-03			
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:
S85	0.2630g	12/16/20 02:12:52	1082
Analysis Method : SOP.T.30.151.FL (Gainesville), SOP.T.30.151A.FL (Davie), SOP.T.40.151.FL (Gainesville), SOP.T.40.151A.FL (Davie)			
Analytical Batch : DA019977VOL			
Instrument Used : DA-GCMS-006			
Analyzed Date : 12/16/20 17:23:57			
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 : DA01215021-007

Harvest/Lot ID: DPFV101-201208-01

Batch# : DF-CACI-112020

Sampled : 12/15/20

Ordered : 12/15/20

Sample Size Received : 16 gram

Total Amount : 2292 units

Completed : 12/21/20 Expires: 12/21/21

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		29.265
PENTANES (N-PENTANE)	75	ppm	750		0
ETHYL ETHER	50	ppm	500		0
ACETONE	75	ppm	750		8.341
2-PROPANOL	50	ppm	500		0
ACETONITRILE	6	ppm	60		1.162
DICHLOROMETHANE	12.5	ppm	125		0
N-HEXANE	25	ppm	250		3.546
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:
 850

 Weight:
 0.0219g

 Extraction date:
 12/18/20 04:12:52

 Extracted by:
 850

Analysis Method : SOP.T.40.041.FL

Analytical Batch : DA02014150L

Instrument Used : DA-GCMS-003

Analyzed Date : 12/18/20 16:31:09

Reviewed On : 12/21/20 13:22:23

Batch Date : 12/18/20 13:05:16

Dilution : 1

Reagent : N/A

Consumables : G201.162; R2017.179

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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Sampled : 12/15/20

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<div>Microbial</div> <div>PASSED</div>						<div>Mycotoxins</div> <div>PASSED</div>					
Analyte	LOD	Units	Result	Pass / Fail	Action Level	Analyte	LOD	Units	Result	Pass / Fail	Action Level
ASPERGILLUS FLAVUS	10000	RFU	0		10000	AFLATOXIN G2	0.002	ppm	0		0.02
ASPERGILLUS FUMIGATUS	10000	RFU	170		10000	AFLATOXIN G1	0.002	ppm	0		0.02
ASPERGILLUS NIGER	10000	RFU	0		10000	AFLATOXIN B2	0.002	ppm	0		0.02
ASPERGILLUS TERREUS	8000	RFU	474		8000	AFLATOXIN B1	0.002	ppm	0		0.02
ESCHERICHIA COLI SHIGELLA SPP	1726	RFU	0		1726	OCHRATOXIN A+	0.002	ppm	0		0.02
SALMONELLA SPECIFIC GENE	10000	RFU	248		10000						
TOTAL YEAST AND MOLD	100	CFU	< 1000		100000						
Analyzed by: 513	Weight: 1.0986g	Extraction date: 12/16/20 07:12:21	Extracted by: 513			Analyzed by: 585	Weight: 1g	Extraction date: 12/17/20 02:12:19	Extracted by: 585		
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 : DA019968MIC			Reviewed On : 12/18/20 19:01:34			Analytical Batch : DA019984MYC			Reviewed On : 12/17/20 14:28:34		
Instrument Used : PathogenDx Scanner DA-111,Applied Biosystems Thermocycler DA-010			Batch Date : 12/16/20 08:09:58			Instrument Used : N/A			Batch Date : 12/16/20 09:29:30		
Analyzed Date : 12/17/20 08:24:09						Analyzed Date : 12/16/20 20:21:19					
						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					
Analyzed by: N/A						Mycotoxins testing utilizing Liquid Chromatography with Triple-Quadrupole Mass Spectrometry in accordance with F.S. Rule 64ER20-39.					
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 : DA019973TYM			Reviewed On : 12/18/20 17:02:13								
Instrument Used : PathogenDx Scanner DA-111,Applied Biosystems MiniAmp Thermocycler DA-190			Batch Date : 12/16/20 08:46:29								
Analyzed Date : 12/17/20 08:33:13											

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

3

Hg

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	0.007		0.2
LEAD	0.05	PPM	0		0.5

Analyzed by: 1022

Weight: 0.2637g

Extraction date: 12/16/20 01:12:46

Extracted by: 1879

Analysis Method : SOP.T.30.082.FL, SOP.T.40.082.FL

Analytical Batch : DA020002HEA

Instrument Used : DA-ICPMS-002

Analyzed Date : 12/16/20 18:02:13

Reviewed On : 12/17/20 08:53:02

Batch Date : 12/16/20 10:57:29

Dilution : 100

Reagent : 121520.R22; 101220.03; 120720.R12; 112320.R08; 121420.R12; 120720.R39; 112320.R06; 121520.R23; 121420.R05; 090820.20; 030420.06; 110120.01

Consumables : 89401-566

Pipette : N/A

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



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Sample Method : SOP.T.20.010

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**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 : DA020003FIL Instrument Used : Filth/Foreign Material Microscope Analyzed Date : N/A			

Reviewed On :	Batch Date :
12/16/20 13:36:53	12/16/20 11:00:10

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	0.1	aw	0.441		0.85

Analyzed by:	Weight:	Extraction date:	Extracted by:
Analysis Method : SOP.T.40.019 Analytical Batch : DA020001WAT Instrument Used : DA-028 Rotronic Hygropalm Analyzed Date : N/A			

Reviewed On :	Batch Date :
12/16/20 16:20:43	12/16/20 10:57:22

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