



Certificate of Analysis

COMPLIANCE FOR RETAIL

Sample: DA30513010-004
Harvest/Lot ID: LDWF152E-2305-20676
Batch#: HC-52H-041023
Cultivation Facility: Gainesville Cultivation
Processing Facility : Gainesville Processing
Source Facility : Gainesville Cultivation
Seed to Sale# LDWF152E-2305-20676
Batch Date: 05/09/23
Sample Size Received: 63 gram
Total Amount: 4606 units
Retail Product Size: 3.5 gram
Ordered: 05/12/23
Sampled: 05/12/23
Completed: 05/17/23
Sampling Method: SOP.T.20.010

May 17, 2023 | Liberty Health Sciences,
FL

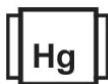
18770 N CR 225
Gainesville, FL, 32609, US

PASSED

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PRODUCT IMAGE

SAFETY RESULTS

Pesticides
PASSED

Heavy Metals
PASSED

Microbials
PASSED

Mycotoxins
PASSED

Residuals Solvents
NOT TESTED

Filtration
PASSED

Water Activity
PASSED

Moisture
PASSED

Terpenes
TESTED
MISC.

Cannabinoid
PASSED

Total THC
24.892%

Total THC/Container : 871.22 mg


Total CBD
0.048%

Total CBD/Container : 1.68 mg


Total Cannabinoids
30.251%

Total Cannabinoids/Container : 1058.785 mg

	D9-THC	THCA	CBD	CBDA	D8-THC	CBG	CBGA	CBN	THCV	CBDV	CBC
%	1.796	26.336	ND	0.055	0.017	0.128	1.871	0.011	<0.01	ND	0.037
mg/unit	62.86	921.76	ND	1.925	0.595	4.48	65.485	0.385	<0.35	ND	1.295
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:
1665, 3112, 585, 1440

Weight:
0.2156g

Extraction date:
05/15/23 09:48:01

Extracted by:
1665

Analysis Method : SOP.T.40.031, SOP.T.30.031
Analytical Batch : DA060185POT
Instrument Used : DA-LC-002 (Flower)
Analyzed Date : 05/15/23 09:50:17

Reviewed On : 05/17/23 11:08:43
Batch Date : 05/14/23 00:17:00

Dilution : 400
Reagent : 050923.R10; 032123.11; 050923.R05
Consumables : 280670723; CE0123; 61633-125C6-125E; R1KB14270
Pipette : DA-079; DA-108; DA-078

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.

Jorge Segredo
Lab Director

State License # CMTL-0002
 ISO 17025 Accreditation # ISO/IEC
 17025:2017 Accreditation PJLA-
 Testing 97164

Signature
05/17/23



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Terpenes

TESTED

Terpenes	LOD (%)	mg/unit	%	Result (%)	Terpenes	LOD (%)	mg/unit	%	Result (%)
TOTAL TERPENES	0.007	81.305	2.323		FARNESENE	0.007	3.22	0.092	
TOTAL TERPINEOL	0.007	0.7	0.02		ALPHA-HUMULENE	0.007	2.03	0.058	
ALPHA-BISABOLOL	0.007	<0.7	<0.02		VALENCENE	0.007	ND	ND	
ALPHA-PINENE	0.007	1.26	0.036		CIS-NEROLIDOL	0.007	0.77	0.022	
CAMPHENE	0.007	ND	ND		TRANS-NEROLIDOL	0.007	<0.7	<0.02	
SABINENE	0.007	<0.7	<0.02		CARYOPHYLLENE OXIDE	0.007	<0.7	<0.02	
BETA-PINENE	0.007	1.715	0.049		GUAIOL	0.007	ND	ND	
BETA-MYRCENE	0.007	4.55	0.13		CEDROL	0.007	ND	ND	
ALPHA-PHELLANDRENE	0.007	2.905	0.083		<div>Analyzed by: 2076, 585, 1440Weight: 1.1245gExtraction date: 05/15/23 14:43:31Extracted by: 2076</div> <div>Analysis Method : SOP.T.30.061A.FL, SOP.T.40.061A.FLAnalytical Batch : DA060207TERInstrument Used : DA-GCMS-008Analyzed Date : 05/15/23 14:58:55</div> <div>Dilution : 10Reagent : 121622.28Consumables : 210414634; MKCN9995; CE0123; R1KB14270Pipette : N/A</div> <div>Terpenoid testing is performed utilizing Gas Chromatography Mass Spectrometry. For all Flower samples, the Total Terpenes % is dry-weight corrected.</div>				
3-CARENE	0.007	0.91	0.026						
ALPHA-TERPINENE	0.007	0.7	0.02						
LIMONENE	0.007	1.54	0.044						
EUCALYPTOL	0.007	<0.7	<0.02		<div>Reviewed On : 05/16/23 13:47:30Batch Date : 05/15/23 09:02:18</div>				
OCIMENE	0.007	13.055	0.373						
GAMMA-TERPINENE	0.007	<0.7	<0.02						
SABINENE HYDRATE	0.007	ND	ND						
TERPINOLENE	0.007	18.725	0.535						
FENCHONE	0.007	ND	ND						
LINALOOL	0.007	1.75	0.05						
FENCHYL ALCOHOL	0.007	ND	ND						
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	7.245	0.207						
Total (%)			2.323						



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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
CLOFENTEZINE	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	3379, 1665, 585, 1440	0.9353g	05/15/23 14:07:10	450,1665		
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 : DA060182PES			Reviewed On : 05/16/23 10:27:31		
ETOXAZOLE	0.01	ppm	0.1	PASS	ND	Instrument Used : DA-LCMS-003 (PES)			Batch Date : 05/13/23 14:49:12		
FENHEXAMID	0.01	ppm	0.1	PASS	ND	Analyzed Date : 05/15/23 12:30:20					
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	450, 585, 1440	0.9353g	05/15/23 14:07:10	450,1665		
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 : DA060198VOL			Reviewed On : 05/16/23 11:05:27		
MALATHION	0.01	ppm	0.2	PASS	ND	Instrument Used : DA-GCMS-006			Batch Date : 05/14/23 13:44:49		
METALAXYL	0.01	ppm	0.1	PASS	ND	Analyzed Date : 05/15/23 14:20:09					
METHIOCARB	0.01	ppm	0.1	PASS	ND	Dilution : 250					
METHOMYL	0.01	ppm	0.1	PASS	ND	Reagent : 051023.R18; 040521.11; 042723.R38; 050223.R19					
MEVINPHOS	0.01	ppm	0.1	PASS	ND	Consumables : 6697075-02; 14725401					
MYCLOBUTANIL	0.01	ppm	0.1	PASS	ND	Pipette : DA-080; DA-146; DA-218					
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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
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 Microbial PASSED						 Mycotoxins PASSED					
Analyte	LOD	Units	Result	Pass / Fail	Action Level	Analyte	LOD	Units	Result	Pass / Fail	Action Level
ECOLI SHIGELLA			Not Present	PASS		AFLATOXIN B2	0.002	ppm	ND	PASS	0.02
SALMONELLA SPECIFIC GENE			Not Present	PASS		AFLATOXIN B1	0.002	ppm	ND	PASS	0.02
ASPERGILLUS FLAVUS			Not Present	PASS		OCHRATOXIN A	0.002	ppm	ND	PASS	0.02
ASPERGILLUS FUMIGATUS			Not Present	PASS		AFLATOXIN G1	0.002	ppm	ND	PASS	0.02
ASPERGILLUS TERREUS			Not Present	PASS		AFLATOXIN G2	0.002	ppm	ND	PASS	0.02
ASPERGILLUS NIGER			Not Present	PASS							
TOTAL YEAST AND MOLD	10	CFU/g	<10	PASS	100000						
Analyzed by: 3621, 3390, 585, 1440 Weight: 1.0494g Extraction date: 05/14/23 16:25:21 Extracted by: 3621 Analysis Method : SOP.T.40.056C, SOP.T.40.058.FL, SOP.T.40.209.FL Analytical Batch : DA060166MIC Instrument Used : PathogenDx Scanner DA-111, Applied Biosystems Thermocycler DA-171, fisherbrand Isotemp Heat Block DA-020, fisherbrand Isotemp Heat Block DA-049, Fisher Scientific Isotemp Heat Block DA-021 Analyzed Date : 05/13/23 16:17:10 Dilution : N/A Reagent : 031523.02; 042623.R85; 092122.08 Consumables : 7563002016 Pipette : N/A						Analyzed by: 3379, 1665, 585, 1440 Weight: 0.9353g Extraction date: 05/15/23 14:07:10 Extracted by: 450,1665 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 : DA060199MYC Instrument Used : N/A Analyzed Date : 05/15/23 12:30:50 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.					
Reviewed On : 05/16/23 15:03:56 Batch Date : 05/13/23 10:37:04						Reviewed On : 05/16/23 10:26:03 Batch Date : 05/14/23 13:44:54					
 Heavy Metals PASSED											
Metal	LOD	Units	Result	Pass / Fail	Action Level						
TOTAL CONTAMINANT LOAD METALS	0.08	ppm	ND	PASS	1.1						
ARSENIC	0.02	ppm	ND	PASS	0.2						
CADMIUM	0.02	ppm	<0.1	PASS	0.2						
MERCURY	0.02	ppm	ND	PASS	0.2						
LEAD	0.02	ppm	ND	PASS	0.5						
Analyzed by: 1022, 585, 1440 Weight: 0.2297g Extraction date: 05/15/23 08:50:09 Extracted by: 1022,3807 Analysis Method : SOP.T.30.082.FL, SOP.T.40.082.FL Analytical Batch : DA060202HEA Instrument Used : DA-ICPMS-003 Analyzed Date : 05/15/23 14:03:00 Dilution : 50 Reagent : 050923.R24; 042623.R82; 051223.R23; 051123.R01; 051223.R21; 051223.R22; 050423.R32; 050923.01; 042523.R20 Consumables : 179436; 210508058; 12628-309CC-309 Pipette : DA-061; DA-191; DA-216 Heavy Metals analysis is performed using Inductively Coupled Plasma Mass Spectrometry in accordance with F.S. Rule 64ER20-39.											

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



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**Filth/Foreign
Material**
PASSED

Moisture
PASSED

Analyte	LOD	Units	Result	P/F	Action Level	Analyte	LOD	Units	Result	P/F	Action Level
Filth and Foreign Material	0.1	%	ND	PASS	1	Moisture Content	1	%	13.33	PASS	15
Analyzed by: 1879, 1440 Weight: NA Extraction date: N/A Analysis Method : SOP.T.40.090 Analytical Batch : DA060203FIL Instrument Used : Filth/Foreign Material Microscope Analyzed Date : 05/15/23 05:04:54 Dilution : N/A Reagent : N/A Consumables : N/A Pipette : N/A						Analyzed by: 3807, 585, 1440 Weight: 0.495g Extraction date: 05/15/23 19:11:52 Analysis Method : SOP.T.40.021 Analytical Batch : DA060208MOI Instrument Used : DA-003 Moisture Analyzer Analyzed Date : 05/16/23 12:47:28 Dilution : N/A Reagent : 101920.06; 020123.02 Consumables : PS-14 Pipette : DA-066					

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

Moisture Content analysis utilizing loss-on-drying technology in accordance with F.S. Rule 64ER20-39.


Water Activity
PASSED

Analyte	LOD	Units	Result	P/F	Action Level
Water Activity	0.01	aw	0.559	PASS	0.65
Analyzed by: 3807, 585, 1440 Weight: 0.607g Extraction date: 05/15/23 19:23:35 Analysis Method : SOP.T.40.019 Analytical Batch : DA060209WAT Instrument Used : DA-028 Rotronic HygroPalm Analyzed Date : 05/16/23 12:12:04 Dilution : N/A Reagent : N/A Consumables : N/A Pipette : N/A					

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