



# Certificate of Analysis

## COMPLIANCE FOR RETAIL

Sample: DA30511009-002

Harvest/Lot ID: LDWF161E-2305-20606

Batch#: GG4-1G-041123

Cultivation Facility: Gainesville Cultivation

Processing Facility: Gainesville Processing

Source Facility: Gainesville Cultivation

Seed to Sale# LDWF161E-2305-20606

Batch Date: 05/04/23

Sample Size Received: 73.5 gram

Total Amount: 5602 units

Retail Product Size: 3.5 gram

Ordered: 05/10/23

Sampled: 05/10/23

Completed: 05/13/23

Sampling Method: SOP.T.20.010

**PASSED**

May 13, 2023 | Liberty Health Sciences,  
FL

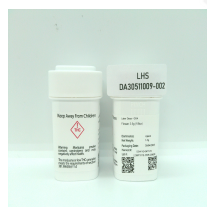
18770 N CR 225

Gainesville, FL, 32609, US



Pages 1 of 5

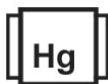
### PRODUCT IMAGE



### 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

**20.07%**

Total THC/Container : 702.45 mg



Total CBD

**0.039%**

Total CBD/Container : 1.365 mg



Total Cannabinoids

**23.332%**

Total Cannabinoids/Container : 816.62 mg

	D9-THC	THCA	CBD	CBDA	D8-THC	CBG	CBGA	CBN	THCV	CBDV	CBC
%	0.882	21.88	ND	0.045	0.01	0.075	0.398	<0.01	0.019	ND	0.023
mg/unit	30.87	765.8	ND	1.575	0.35	2.625	13.93	<0.35	0.665	ND	0.805
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, 4044

Weight:  
0.2063g

Extraction date:  
05/11/23 10:45:20

Extracted by:  
1665

Analysis Method : SOP.T.40.031, SOP.T.30.031  
Analytical Batch : DA060047POT  
Instrument Used : DA-LC-002 (Flower)  
Analyzed Date : 05/11/23 10:47:41

Reviewed On : 05/12/23 10:33:57  
Batch Date : 05/11/23 09:47:04

Dilution : 400  
Reagent : 050923.R10; 070621.18; 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  
05/13/23



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18770 N CR 225  
Gainesville, FL, 32609, US  
Telephone: (833) 254-4877  
Email: Qualityassurance@libertyhealthsciences.com

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Completed : 05/13/23 Expires: 05/13/24

Sample Method : SOP.T.20.010

Page 2 of 5



## Terpenes

**TESTED**

Terpenes	LOD (%)	mg/unit	%	Result (%)	Terpenes	LOD (%)	mg/unit	%	Result (%)
TOTAL TERPENES	0.007	61.11	1.746		FARNESENE	0.007	0.35	0.01	
TOTAL TERPINEOL	0.007	<0.7	<0.02		ALPHA-HUMULENE	0.007	5.985	0.171	
ALPHA-BISABOLOL	0.007	3.15	0.09		VALENCENE	0.007	ND	ND	
ALPHA-PINENE	0.007	0.945	0.027		CIS-NEROLIDOL	0.007	ND	ND	
CAMPHENE	0.007	<0.7	<0.02		TRANS-NEROLIDOL	0.007	ND	ND	
SABINENE	0.007	ND	ND		CARYOPHYLLENE OXIDE	0.007	<0.7	<0.02	
BETA-PINENE	0.007	1.295	0.037		GUAIOL	0.007	ND	ND	
BETA-MYRCENE	0.007	11.41	0.326		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	ND	ND						
EUCALYPTOL	0.007	ND	ND						
OCIMENE	0.007	<0.7	<0.02						
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	2.065	0.059						
FENCHYL ALCOHOL	0.007	1.295	0.037						
ISOPULEGOL	0.007	<0.7	<0.02						
CAMPHOR	0.013	ND	ND						
ISOBORNEOL	0.007	ND	ND						
BORNEOL	0.013	ND	ND						
HEXAHYDROTHYMOL	0.007	<0.7	<0.02						
NEROL	0.007	<0.7	<0.02						
PULEGONE	0.007	ND	ND						
GERANIOL	0.007	<0.7	<0.02						
GERANYL ACETATE	0.007	<0.7	<0.02						
ALPHA-CEDRENE	0.007	ND	ND						
BETA-CARYOPHYLLENE	0.007	19.74	0.564						
<b>Total (%)</b>			<b>1.746</b>						

Analyzed by:  
2076, 585, 4044

Weight:  
1.0021g

Extraction date:  
05/11/23 11:25:54

Extracted by:  
2076

Analysis Method : SOP.T.30.061A.FL, SOP.T.40.061A.FL

Analytical Batch : DA060051TER

Instrument Used : DA-GCMS-004

Analyzed Date : N/A

Reviewed On : 05/13/23 12:58:22

Batch Date : 05/11/23 10:12:18

Dilution : 10

Reagent : 121622.29

Consumables : 210414634; MKCN9995; CE0123; R1KB14270

Pipette : N/A

Terpenoid testing is performed utilizing Gas Chromatography Mass Spectrometry. For all Flower samples, the Total Terpenes % is dry-weight corrected.



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Page 3 of 5



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, 585, 4044	1.0035g	05/11/23 13:01:30	3379,585		
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 : DA060046PES			Reviewed On : 05/12/23 13:24:06		
ETOXAZOLE	0.01	ppm	0.1	PASS	ND	Instrument Used : DA-LCMS-003 (PES)			Batch Date : 05/11/23 09:46:16		
FENHEXAMID	0.01	ppm	0.1	PASS	ND	Analyzed Date : 05/11/23 13:06:20					
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, 4044	1.0035g	05/11/23 13:01:30	3379,585		
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 : DA060049VOL			Reviewed On : 05/12/23 10:24:47		
MALATHION	0.01	ppm	0.2	PASS	ND	Instrument Used : DA-GCMS-006			Batch Date : 05/11/23 09:49:52		
METALAXYL	0.01	ppm	0.1	PASS	ND	Analyzed Date : 05/11/23 14:00:41					
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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
Sample Size Received : 73.5 gram

Total Amount : 5602 units

Completed : 05/13/23 Expires: 05/13/24

Sample Method : SOP.T.20.010

Page 4 of 5

<div> Microbial</div>						<div> Mycotoxins</div>						<div>PASSED</div>					
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: 3379, 585, 4044	Weight: 1.0035g	Extraction date: 05/11/23 13:01:30	Extracted by: 3379,585								
Analyzed by: 3336, 3621, 585, 4044 Weight: 1.0238g Extraction date: 05/11/23 10:50:33 Extracted by: 3336 Analysis Method : SOP.T.40.056C, SOP.T.40.058.FL, SOP.T.40.209.FL Analytical Batch : DA060037MIC Instrument Used : PathogenDx Scanner DA-111,Applied Biosystems Thermocycler DA-013,fisherbrand Isotemp Heat Block DA-020,fisherbrand Isotemp Heat Block DA-049,Fisher Scientific Isotemp Heat Block DA-021 Analyzed Date : 05/11/23 11:41:25 Dilution : N/A Reagent : 031023.07; 092122.08; 042623.R85 Consumables : 7563002005 Pipette : N/A						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 : DA060048MYC Instrument Used : N/A Analyzed Date : 05/11/23 13:06:59 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						Reviewed On : 05/12/23 13:22:05 Batch Date : 05/11/23 09:49:49					
Mycotoxins testing utilizing Liquid Chromatography with Triple-Quadrupole Mass Spectrometry in accordance with F.S. Rule 64ER20-39.																	
<div> Heavy Metals</div>						<div>PASSED</div>											
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	ND	PASS	0.2												
MERCURY	0.02	ppm	ND	PASS	0.2												
LEAD	0.02	ppm	ND	PASS	0.5												
Analyzed by: 1022, 585, 4044 Weight: 0.2226g Extraction date: 05/11/23 10:41:55 Extracted by: 1022,3807 Analysis Method : SOP.T.30.082.FL, SOP.T.40.082.FL Analytical Batch : DA060040HEA Instrument Used : DA-ICPMS-003 Analyzed Date : 05/11/23 17:43:37 Dilution : 50 Reagent : 050923.R24; 042623.R82; 050523.R44; 051123.R01; 050523.R42; 050523.R43; 050423.R32; 050923.01; 042523.R20 Consumables : 179436; 210508058; 12628-309CC-309 Pipette : DA-061; DA-191; DA-216						Reviewed On : 05/12/23 10:57:34 Batch Date : 05/11/23 09:25:51											
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**

**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	%	13.03	PASS	15
Analyzed by: 1879, 4044 Weight: NA Extraction date: N/A Analyzed Date : 05/12/23 23:34:11						Analyzed by: 2926, 585, 4044 Weight: 0.5g Extraction date: 05/11/23 14:07:43 Analyzed Date : 05/11/23 12:43:34					
Analysis Method : SOP.T.40.090 Analytical Batch : DA060142FIL Instrument Used : Filth/Foreign Material Microscope Reviewed On : 05/12/23 23:44:50 Batch Date : 05/12/23 18:48:15						Analysis Method : SOP.T.40.021 Analytical Batch : DA060062MOI Instrument Used : DA-003 Moisture Analyzer Reviewed On : 05/11/23 14:32:51 Batch Date : 05/11/23 10:54:53					
Dilution : N/A Reagent : N/A Consumables : N/A Pipette : N/A						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	0.525	PASS	0.65
Analyzed by: 2926, 585, 4044 Weight: 0.819g Extraction date: 05/11/23 12:17:06 Analyzed Date : 05/11/23 12:16:25					
Analysis Method : SOP.T.40.019 Analytical Batch : DA060059WAT Instrument Used : DA-028 Rotronic HygroPalm Reviewed On : 05/11/23 13:59:33 Batch Date : 05/11/23 10:45:14					
Dilution : N/A Reagent : 100522.09 Consumables : PS-14 Pipette : N/A					

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