



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

May 13, 2023 | Liberty Health Sciences,
FL

18770 N CR 225
Gainesville, FL, 32609, US



PASSED

Pages 1 of 5

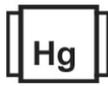
PRODUCT IMAGE



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
%	%	%	%	%	%	%	%	%	%	%	%

Analysed 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)
Analysed 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.

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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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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 TERPENEOL	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		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 Reviewed On: 05/13/23 12:58:22 Instrument Used: DA-GCMS-004 Analyzed Date: N/A 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.			
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					
Total (%)		1.746					

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Jorge Segredo
Lab Director

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17025:2017 Accreditation PJLA-
Testing 97164

Signature
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Sample Method : SOP.T.20.010

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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	PROPRICONAZOLE	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
ACEQUINOCLYL	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), SOP.T.40.102.FL (Davie)					
ETHOPROPHOS	0.01	ppm	0.1	PASS	ND	Analytical Batch : DA060046PES					
ETOFENPROX	0.01	ppm	0.1	PASS	ND	Instrument Used : DA-LCMS-003 (PES)					
ETOXAZOLE	0.01	ppm	0.1	PASS	ND	Analyzed Date : 05/11/23 13:06:20					
FENHEXAMID	0.01	ppm	0.1	PASS	ND	Dilution : 250					
FENOXYCARB	0.01	ppm	0.1	PASS	ND	Reagent : 050823.R10; 050923.R04; 051023.R18; 051023.R47; 042623.R45; 051023.R16; 040521.11					
FENPYROXIMATE	0.01	ppm	0.1	PASS	ND	Consumables : 6697075-02					
FIPRONIL	0.01	ppm	0.1	PASS	ND	Pipette : DA-093; DA-094; DA-219					
FLONICAMID	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.					
FLUDIOXONIL	0.01	ppm	0.1	PASS	ND	Analyzed by:	Weight:	Extraction date:	Extracted by:		
HEXYTHIAZOX	0.01	ppm	0.1	PASS	ND	450, 585, 4044	1.0035g	05/11/23 13:01:30	3379,585		
IMAZALIL	0.01	ppm	0.1	PASS	ND	Analysis Method : SOP.T.30.151.FL (Gainesville), SOP.T.30.151A.FL (Davie), SOP.T.40.151.FL					
IMIDACLOPRID	0.01	ppm	0.4	PASS	ND	Analytical Batch : DA060049VOL					
KRESOXIM-METHYL	0.01	ppm	0.1	PASS	ND	Instrument Used : DA-GCMS-006					
MALATHION	0.01	ppm	0.2	PASS	ND	Analyzed Date : 05/11/23 14:00:41					
METALAXYL	0.01	ppm	0.1	PASS	ND	Dilution : 250					
METHIOCARB	0.01	ppm	0.1	PASS	ND	Reagent : 051023.R18; 040521.11; 042723.R38; 050223.R19					
METHOMYL	0.01	ppm	0.1	PASS	ND	Consumables : 6697075-02; 14725401					
MEVINPHOS	0.01	ppm	0.1	PASS	ND	Pipette : DA-080; DA-146; DA-218					
MYCLOBUTANIL	0.01	ppm	0.1	PASS	ND	Testing for agricultural agents is performed utilizing Gas Chromatography Triple-Quadrupole Mass Spectrometry in accordance with F.S. Rule 64ER20-39.					
NALED	0.01	ppm	0.25	PASS	ND						

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Lab Director

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Testing 97164

Signature
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Sample Method : SOP.T.20.010

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	Microbial	PASSED		Mycotoxins	PASSED
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Analyte	LOD	Units	Result	Pass / Fail	Action Level
ECOLI SHIGELLA			Not Present	PASS	
SALMONELLA SPECIFIC GENE			Not Present	PASS	
ASPERGILLUS FLAVUS			Not Present	PASS	
ASPERGILLUS FUMIGATUS			Not Present	PASS	
ASPERGILLUS TERREUS			Not Present	PASS	
ASPERGILLUS NIGER			Not Present	PASS	
TOTAL YEAST AND MOLD	10	CFU/g	<10	PASS	100000

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 Reviewed On : 05/12/23 10:43:28 Batch Date : 05/11/23 09:17:53

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

Analyzed by: 3336, 585, 4044 Weight: 1.0238g Extraction date: 05/11/23 10:50:33 Extracted by: 3336, 3390

Analysis Method : SOP.T.40.208 (Gainesville), SOP.T.40.209.FL Analytical Batch : DA060061TYM Reviewed On : 05/13/23 14:57:15 Instrument Used : Incubator (25-27C) DA-096 Batch Date : 05/11/23 10:54:18 Analyzed Date : 05/11/23 11:40:57

Dilution : 10 Reagent : 031023.07 Consumables : 007109 Pipette : N/A

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

Analyte	LOD	Units	Result	Pass / Fail	Action Level
AFLATOXIN B2	0.002	ppm	ND	PASS	0.02
AFLATOXIN B1	0.002	ppm	ND	PASS	0.02
OCHRATOXIN A	0.002	ppm	ND	PASS	0.02
AFLATOXIN G1	0.002	ppm	ND	PASS	0.02
AFLATOXIN G2	0.002	ppm	ND	PASS	0.02

Analyzed by: 3379, 585, 4044 Weight: 1.0035g Extraction date: 05/11/23 13:01:30 Extracted by: 3379, 585

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 Reviewed On : 05/12/23 13:22:05 Instrument Used : N/A Batch Date : 05/11/23 09:49:49 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

Mycotoxins testing utilizing Liquid Chromatography with Triple-Quadrupole Mass Spectrometry in accordance with F.S. Rule 64ER20-39.

	Heavy Metals	PASSED
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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 Reviewed On : 05/12/23 10:57:34 Instrument Used : DA-ICPMS-003 Batch Date : 05/11/23 09:25:51 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

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	Reviewed On : 05/12/23 23:44:50		Extracted by: N/A	Analyzed by: 2926, 585, 4044	Weight: 0.5g	Extraction date: 05/11/23 14:07:43	Reviewed On : 05/11/23 14:32:51		Extracted by: 2926
Analysis Method : SOP.T.40.090						Analysis Method : SOP.T.40.021					
Analytical Batch : DA060142FIL						Analytical Batch : DA060062MOI					
Instrument Used : Filth/Foreign Material Microscope						Instrument Used : DA-003 Moisture Analyzer					
Analyzed Date : 05/12/23 23:34:11						Analyzed Date : 05/11/23 12:43:34					
Dilution : N/A						Dilution : N/A					
Reagent : N/A						Reagent : 101920.06; 020123.02					
Consumables : N/A						Consumables : PS-14					
Pipette : N/A						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	Reviewed On : 05/11/23 13:59:33		Extracted by: 2926
Analysis Method : SOP.T.40.019					
Analytical Batch : DA060059WAT					
Instrument Used : DA-028 Rotronic HygroPalm					
Analyzed Date : 05/11/23 12:16:25					
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.

