



# Certificate of Analysis

**COMPLIANCE FOR RETAIL**

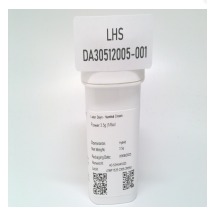
**Sample:** DA30512005-001  
**Harvest/Lot ID:** LDWF152E-2305-20650  
**Batch#:** HC-52H-041023  
**Cultivation Facility:** Gainesville Cultivation  
**Processing Facility :** Gainesville Processing  
**Source Facility :** Gainesville Processing  
**Seed to Sale#** LDWF152E-2305-20650  
**Batch Date:** 05/08/23  
**Sample Size Received:** 63 gram  
**Total Amount:** 4607 units  
**Retail Product Size:** 3.5 gram  
**Ordered:** 05/11/23  
**Sampled:** 05/11/23  
**Completed:** 05/15/23  
**Sampling Method:** SOP.T.20.010

May 15, 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**

**21.803%**

Total THC/Container : 763.105 mg


**Total CBD**

**0.039%**

Total CBD/Container : 1.365 mg


**Total Cannabinoids**

**26.488%**

Total Cannabinoids/Container : 927.08 mg

	D9-THC	THCA	CBD	CBDA	D8-THC	CBG	CBGA	CBN	THCV	CBDV	CBC
%	1.397	23.268	ND	0.045	ND	0.103	1.64	<0.01	ND	ND	0.035
mg/unit	48.895	814.38	ND	1.575	ND	3.605	57.4	<0.35	ND	ND	1.225
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, 585, 1440

Weight:  
0.2063g

Extraction date:  
05/12/23 11:57:19

Extracted by:  
1665

Analysis Method : SOP.T.40.031, SOP.T.30.031  
 Analytical Batch : DA060092POT  
 Instrument Used : DA-LC-002  
 Analyzed Date : 05/12/23 11:59:31

Reviewed On : 05/13/23 13:26:49  
 Batch Date : 05/12/23 10:03:58

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  
 05/15/23



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

Sample : DA30512005-001

Harvest/Lot ID: LDWF152E-2305-20650

Batch# : HC-52H-041023

Sampled : 05/11/23

Ordered : 05/11/23

Sample Size Received : 63 gram

Total Amount : 4607 units

Completed : 05/15/23 Expires: 05/15/24

Sample Method : SOP.T.20.010

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Analyzed by: 2076, 585, 1440 Analysis Method : SOP.T.30.061A.FL, SOP.T.40.061A.FL Analytical Batch : DA060095TER Instrument Used : DA-GCMS-004 Analyzed Date : 05/12/23 16:34:25 Dilution : 10 Reagent : N/A Consumables : 210414634; MKCN9995; CE0123; R1KB14270 Pipette : N/A	Weight: 1.1058g Extraction date: 05/12/23 14:38:58 Reviewed On : 05/15/23 10:53:11 Batch Date : 05/12/23 10:17:41	Extracted by: 2076
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Terpenoid testing is performed utilizing Gas Chromatography Mass Spectrometry. For all Flower samples, the Total Terpenes % is dry-weight corrected.



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<div><div></div><div>Pesticides</div></div>						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	<div>Analyzed by: 3379, 585, 1440</div> <div>Weight: 0.8083g</div> <div>Extraction date: 05/12/23 15:28:49</div> <div>Extracted by: 450, 585</div> <div>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)</div> <div>Analytical Batch : DA060115PES</div> <div>Instrument Used : DA-LCMS-003 (PES)</div> <div>Analyzed Date : 05/12/23 15:21:41</div> <div>Dilution : 250</div> <div>Reagent : 050823.R10; 050923.R04; 051023.R18; 051023.R47; 042623.R45; 051023.R16; 040521.11</div> <div>Consumables : 6697075-02</div> <div>Pipette : DA-093; DA-094; DA-219</div> <div>Testing for agricultural agents is performed utilizing Liquid Chromatography Triple-Quadrupole Mass Spectrometry in accordance with F.S. Rule 64ER20-39.</div>					
DIAZINON	0.01	ppm	0.1	PASS	ND						
DICHLORVOS	0.01	ppm	0.1	PASS	ND						
DIMETHOATE	0.01	ppm	0.1	PASS	ND						
ETHOPROPHOS	0.01	ppm	0.1	PASS	ND						
ETOFENPROX	0.01	ppm	0.1	PASS	ND						
ETOXAZOLE	0.01	ppm	0.1	PASS	ND						
FENHEXAMID	0.01	ppm	0.1	PASS	ND						
FENOXYCARB	0.01	ppm	0.1	PASS	ND						
FENPYROXIMATE	0.01	ppm	0.1	PASS	ND						
FIPRONIL	0.01	ppm	0.1	PASS	ND						
FLONICAMID	0.01	ppm	0.1	PASS	ND						
FLUDIOXONIL	0.01	ppm	0.1	PASS	ND						
HEXYTHIAZOX	0.01	ppm	0.1	PASS	ND						
IMAZALIL	0.01	ppm	0.1	PASS	ND						
IMIDACLOPRID	0.01	ppm	0.4	PASS	ND						
KRESOXIM-METHYL	0.01	ppm	0.1	PASS	ND						
MALATHION	0.01	ppm	0.2	PASS	ND						
METALAXYL	0.01	ppm	0.1	PASS	ND						
METHIOCARB	0.01	ppm	0.1	PASS	ND						
METHOMYL	0.01	ppm	0.1	PASS	ND						
MEVINPHOS	0.01	ppm	0.1	PASS	ND						
MYCLOBUTANIL	0.01	ppm	0.1	PASS	ND						
NALED	0.01	ppm	0.25	PASS	ND						



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Sample : DA30512005-001

Harvest/Lot ID: LDWF152E-2305-20650

Batch# : HC-52H-041023

Sampled : 05/11/23

Ordered : 05/11/23




Sample Size Received : 63 gram

Total Amount : 4607 units

Completed : 05/15/23 Expires: 05/15/24

Sample Method : SOP.T.20.010

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 <b>Microbial</b> <b>PASSED</b>						 <b>Mycotoxins</b> <b>PASSED</b>					
Analyte	LOD	Units	Result	Pass / Fail	Action Level	Analyte	LOD	Units	Result	Pass / Fail	Action Level
ASPERGILLUS TERREUS			Not Present	PASS		AFLATOXIN B2	0.002	ppm	ND	PASS	0.02
ASPERGILLUS NIGER			Not Present	PASS		AFLATOXIN B1	0.002	ppm	ND	PASS	0.02
ASPERGILLUS FUMIGATUS			Not Present	PASS		OCHRATOXIN A	0.002	ppm	ND	PASS	0.02
ASPERGILLUS FLAVUS			Not Present	PASS		AFLATOXIN G1	0.002	ppm	ND	PASS	0.02
SALMONELLA SPECIFIC GENE			Not Present	PASS		AFLATOXIN G2	0.002	ppm	ND	PASS	0.02
ECOLI SHIGELLA			Not Present	PASS							
TOTAL YEAST AND MOLD	10	CFU/g	<10	PASS	100000						
Analyzed by: 3390, 3336, 585, 1440 Weight: 0.9409g Extraction date: 05/12/23 11:44:10 Extracted by: 3336 Analysis Method : SOP.T.40.056C, SOP.T.40.058.FL, SOP.T.40.209.FL Analytical Batch : DA060087MIC Reviewed On : 05/15/23 09:48:21 Instrument Used : PathogenDx Scanner DA-111, Applied Biosystems MiniAmp Thermocycler DA-190, fisherbrand Isotemp Heat Block DA-020, fisherbrand Isotemp Heat Block DA-049, Fisher Scientific Isotemp Heat Block DA-021 Batch Date : 05/12/23 08:54:01 Analyzed Date : 05/12/23 12:21:50 Dilution : N/A Reagent : 031523.13; 042623.R85; 092122.08 Consumables : 7563002057 Pipette : N/A						Analyzed by: 3379, 585, 1440 Weight: 0.8083g Extraction date: 05/12/23 15:28:49 Extracted by: 450,585 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 : DA060116MYC Instrument Used : N/A Reviewed On : 05/15/23 09:29:21 Batch Date : 05/12/23 10:50:10 Analyzed Date : 05/12/23 15:22:01 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.					
 <b>Heavy Metals</b> <b>PASSED</b>											
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: 0.2725g Extraction date: 05/12/23 10:52:21 Extracted by: 1022,3807 Analysis Method : SOP.T.30.082.FL, SOP.T.40.082.FL Analytical Batch : DA060094HEA Instrument Used : DA-ICPMS-003 Reviewed On : 05/13/23 13:10:09 Batch Date : 05/12/23 10:15:16 Analyzed Date : 05/12/23 15:16:31 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	%	11.34	PASS	15
Analyzed by: 1879, 1440 Weight: NA Extraction date: N/A Analyzed Date : 05/12/23 23:34:05						Analyzed by: 2926, 585, 1440 Weight: 0.497g Extraction date: 05/12/23 16:56:27 Analyzed Date : 05/12/23 15:51:37					
Analysis Method : SOP.T.40.090 Analytical Batch : DA060150FIL Instrument Used : Filth/Foreign Material Microscope Reviewed On : 05/12/23 23:45:23 Batch Date : 05/12/23 23:32:07						Analysis Method : SOP.T.40.021 Analytical Batch : DA060130MOI Instrument Used : DA-003 Moisture Analyzer Reviewed On : 05/12/23 17:26:48 Batch Date : 05/12/23 12:27:06					
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	0.594	PASS	0.65
Analyzed by: 2926, 585, 1440 Weight: 0.57g Extraction date: 05/12/23 15:27:20 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 : 05/12/23 16:04:25 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.