



# Certificate of Analysis

**Sample:GA20702001-010**
**Harvest/Lot ID: SOFG101-2206-10971**
**Batch#: THC-DIS-042222**
**Cultivation Facility: Gainesville Cultivation**
**Processing Facility : Gainesville Processing**
**Seed to Sale# SOFG101-2206-10971**
**Batch Date: 06/28/22**
**Sample Size Received: 338 gram**
**Total Batch Size: 2859 gram**
**Retail Product Size: 26 gram**
**Ordered : 07/02/22**
**Sampled : 07/02/22**
**Completed: 07/05/22**
**Sampling Method: SOP.T.20.010.FL**
**PASSED**


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Jul 05, 2022 | Liberty Health Sciences, FL





18770 N CR 225

Gainesville, FL, 32609, US



PRODUCT IMAGE	SAFETY RESULTS								MISC.
	 <b>Pesticides PASSED</b>	 <b>Heavy Metals PASSED</b>	 <b>Microbials PASSED</b>	 <b>Mycotoxins PASSED</b>	 <b>Residuals Solvents PASSED</b>	 <b>Filtration PASSED</b>	 <b>Water Activity PASSED</b>	 <b>Moisture NOT TESTED</b>	 <b>Terpenes NOT TESTED</b>

	<b>Cannabinoid</b>	<b>PASSED</b>
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	<b>Total THC</b> <b>0.383%</b> Total THC/Container : 99.58 mg		<b>Total CBD</b> <b>0%</b> Total CBD/Container : 0 mg		<b>Total Cannabinoids</b> <b>0.393%</b> Total Cannabinoids/Container : 102.18 mg
					
<b>D9-THC</b> % 3.83 mg/g 0.001 %	<b>THCA</b> % <0.01 mg/g 0.001 %	<b>CBD</b> % ND mg/g 0.001 %	<b>CBDA</b> % ND mg/g 0.001 %	<b>D8-THC</b> % ND mg/g 0.001 %	<b>CBG</b> % 0.01 mg/g 0.001 %
<b>CBGA</b> % ND mg/g 0.001 %	<b>CBN</b> % <0.01 mg/g 0.001 %	<b>THCV</b> % <0.01 mg/g 0.001 %	<b>CBDV</b> % ND mg/g 0.002 %	<b>CBC</b> % <0.01 mg/g 0.001 %	

**Analyzed by:**  
3404, 3134, 3205, 1541, 2338

**Weight:**  
2.9306g

**Extraction date:**  
07/03/22 09:28:42

**Extracted by:**  
3134

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

**Analytical Batch :** GA046300POT

**Instrument Used :** GA-HPLC-001 2030C Plus

**Running on :** 07/05/22 07:47:08

**Reviewed On :** 07/05/22 12:28:33

**Batch Date :** 07/01/22 18:32:51

**Dilution :** 40

**Reagent :** 061122.R33; 062122.R33; 013122.10; 062822.32; 061621.03

**Consumables :** 947.271; 470228-424; 9291.271; LLS-00-0005; 12455-202CD-202C; R0NB32898; 29802917; 000000146137; 944C4 944J; 209598; 206639

**Pipette :** GA-002; GA-006; GA-013; GA-209 Dispenser

Full Spectrum cannabinoid analysis utilizing High Performance Liquid Chromatography with UV detection in accordance with F.S. Rule 64ER20-39.



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Telephone: (833) 254-4877

Email: Qualityassurance@libertyhealthsciences.com

Sample : GA20702001-010

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Batch# : THC-DIS-042222

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Completed : 07/05/22 Expires: 07/05/23

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
ABAMECTIN B1A	0.01	ppm	0.3	PASS	ND	PROPOXUR	0.01	ppm	0.1	PASS	ND
ACEPHATE	0.01	ppm	3	PASS	ND	PYRETHRINS	0.01	ppm	1	PASS	ND
ACEQUINOCYL	0.01	ppm	2	PASS	ND	PYRIDABEN	0.01	ppm	3	PASS	ND
ACETAMIPRID	0.01	ppm	3	PASS	ND	SPIROMESIFEN	0.01	ppm	3	PASS	ND
ALDICARB	0.01	ppm	0.1	PASS	ND	SPIROTETRAMAT	0.01	ppm	3	PASS	ND
AZOXYSTROBIN	0.01	ppm	3	PASS	ND	SPIROXAMINE	0.01	ppm	0.1	PASS	ND
BIFENAZATE	0.01	ppm	3	PASS	ND	TEBUCONAZOLE	0.01	ppm	1	PASS	ND
BIFENTHRIN	0.01	ppm	0.5	PASS	ND	THIACLOPRID	0.01	ppm	0.1	PASS	ND
BOSCALID	0.01	PPM	3	PASS	ND	THIAMETHOXAM	0.01	ppm	1	PASS	ND
CARBARYL	0.01	ppm	0.5	PASS	ND	TRIFLOXYSTROBIN	0.01	ppm	3	PASS	ND
CARBOFURAN	0.01	ppm	0.1	PASS	ND	PENTACHLORONITROBENZENE (PCNB) *	0.01	PPM	0.2	PASS	ND
CHLORANTRANILIPROLE	0.01	ppm	3	PASS	ND	PARATHION-METHYL *	0.01	PPM	0.1	PASS	ND
CHLORMEQUAT CHLORIDE	0.01	ppm	3	PASS	ND	CAPTAN *	0.07	PPM	3	PASS	ND
CHLORPYRIFOS	0.01	ppm	0.1	PASS	ND	CHLORDANE *	0.01	PPM	0.1	PASS	ND
CLOFENTZINE	0.01	ppm	0.5	PASS	ND	CHLORFENAPYR *	0.01	PPM	0.1	PASS	ND
COUMAPHOS	0.01	ppm	0.1	PASS	ND	CYFLUTHRIN *	0.05	PPM	1	PASS	ND
DAMINOZIDE	0.01	ppm	0.1	PASS	ND	CYPERMETHRIN *	0.05	PPM	1	PASS	ND
DIAZINON	0.01	ppm	3	PASS	ND	Analyzed by: 3404, 3134, 2338, 3298 Weight: 1.1249g Extraction date: 07/03/22 09:29:25 Extracted by: 3134 Analysis Method : SOP.T.30.101.FL, SOP.T.30.102.FL, SOP.T.30.151.FL, SOP.T.40.101.FL, SOP.T.40.102.FL, SOP.T.40.151.FL Analytical Batch : GA046333PES Instrument Used : GA-LCMS-001 PES Running on : 07/03/22 12:19:36 Dilution : 10 Reagent : 060422.R36; 061222.R01; 010421.51; 061422.R02 Consumables : 947.271; 470228-424; 9291.271; LLS-00-0005; 89012-780; 296055173; 209598 Pipette : GA-002; GA-210 Dispenser Testing for agricultural agents is performed utilizing Liquid Chromatography Triple-Quadrupole Mass Spectrometry and Gas Chromatography Triple-Quadrupole Mass Spectrometry in accordance with F.S. Rule 64ER20-39. Analyzed by: N/A Weight: N/A Extraction date: N/A Extracted by: N/A Analysis Method : SOP.T.30.060, SOP.T.40.060 Analytical Batch : GA046348VOL Instrument Used : GA-GCMS-006 Running on : 07/03/22 17:26:16 Dilution : 100 Reagent : 052322.R02; 060422.R36; 061222.R01; 010421.51; 061522.R52 Consumables : 947.271; 470228-424; 9291.271; LLS-00-0005; 89012-780; 296055173; 944C4 944J; 209598; 206639; 15144001 Pipette : GA-002; GA-006; GA-013; GA-210 Dispenser Testing for agricultural agents is performed utilizing Liquid Chromatography Triple-Quadrupole Mass Spectrometry and Gas Chromatography Triple-Quadrupole Mass Spectrometry in accordance with F.S. Rule 64ER20-39.					
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	1.5	PASS	ND						
FENHEXAMID	0.01	ppm	3	PASS	ND						
FENOXYCARB	0.01	ppm	0.1	PASS	ND						
FENPYROXIMATE	0.01	ppm	2	PASS	ND						
FIPRONIL	0.01	ppm	0.1	PASS	ND						
FLONICAMID	0.01	ppm	2	PASS	ND						
FLUDIOXONIL	0.01	ppm	3	PASS	ND						
HEXYTHIAZOX	0.01	ppm	2	PASS	ND						
IMAZALIL	0.01	ppm	0.1	PASS	ND						
IMIDACLOPRID	0.01	ppm	1	PASS	ND						
KRESOXIM-METHYL	0.01	ppm	1	PASS	ND						
MALATHION	0.01	ppm	2	PASS	ND						
METALAXYL	0.01	ppm	3	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	3	PASS	ND						
NALED	0.01	ppm	0.5	PASS	ND						
OXAMYL	0.01	ppm	0.5	PASS	ND						
PACLOBUTRAZOL	0.01	ppm	0.1	PASS	ND						
PHOSMET	0.01	ppm	0.2	PASS	ND						
PIPERONYL BUTOXIDE	0.01	ppm	3	PASS	ND						
PRALLETHRIN	0.01	ppm	0.4	PASS	ND						
PROPICONAZOLE	0.01	ppm	1	PASS	ND						



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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	PASS	ND
ETHANOL	500	ppm	5000	PASS	ND
PENTANES (N-PENTANE)	75	ppm	750	PASS	ND
ETHYL ETHER	50	ppm	500	PASS	ND
ACETONE	75	ppm	750	PASS	ND
2-PROPANOL	50	ppm	500	PASS	ND
ACETONITRILE	6	ppm	60	PASS	ND
DICHLOROMETHANE	12.5	ppm	125	PASS	ND
N-HEXANE	25	ppm	250	PASS	ND
ETHYL ACETATE	40	ppm	400	PASS	ND
BENZENE	0.1	ppm	1	PASS	ND
HEPTANE	500	ppm	5000	PASS	ND
TOLUENE	15	ppm	150	PASS	ND
PROPANE	500	ppm	5000	PASS	ND
CHLOROFORM	0.2	ppm	2	PASS	ND
1,2-DICHLOROETHANE	0.2	ppm	2	PASS	ND
BUTANES (N-BUTANE)	500	ppm	5000	PASS	ND
ETHYLENE OXIDE	0.5	ppm	5	PASS	ND
1,1-DICHLOROETHENE	0.8	ppm	8	PASS	ND
TRICHLOROETHYLENE	2.5	ppm	25	PASS	ND

Analyzed by:

N/A

Weight:

N/A

Extraction date:

N/A

Extracted by:

N/A

Analysis Method : SOP.T.40.041.FL

Analytical Batch : GA046328SOL

Instrument Used : GA-GCMS-004 QP2020NX

Running on : 07/02/22 17:33:28

Reviewed On : 07/03/22 13:27:23

Batch Date : 07/02/22 13:40:50

Dilution : N/A

Reagent : N/A

Consumables : N/A

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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<div> Microbial</div>						<div><div>PASSED</div></div>					
Analyte	LOD	Units	Result	Pass / Fail	Action Level						
ESCHERICHIA COLI SHIGELLA SPP			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: 3404, 2821, 1541	Weight: 1.16g	Extraction date: 07/02/22 15:59:38	Extracted by: 2821								
Analysis Method : SOP.T.40.041, SOP.T.40.043, SOP.T.40.045, SOP.T.40.056B, SOP.T.40.058.FL, SOP.T.40.208											
Analytical Batch : GA046335MIC			Reviewed On : 07/05/22 12:54:14								
Instrument Used : GA-MIC-001 bioMérieux Gene Up RTPCR			Batch Date : 07/02/22 15:54:22								
Running on : 07/03/22 16:29:02											
Dilution : 90											
Reagent : 061022.03; 062322.R28											
Consumables : SSC005; 2030190; ASP107; 1008776120; BDG200079; 41064-115C4-115 B; 61630-123C6-123E; 8LCJ0511R											
Pipette : GA-018; GA-021; GA-154											
Microbial testing is performed utilizing various technologies including: PCR, RTPCR, MPN, and traditional culture based techniques in accordance with F.S. Rule 64ER20-39..											
Analyzed by: N/A	Weight: N/A	Extraction date: N/A	Extracted by: N/A								
Analysis Method : SOP.T.40.041			Reviewed On : 07/05/22 12:54:00								
Analytical Batch : GA046336TYM			Batch Date : 07/02/22 16:02:31								
Instrument Used : GA-TYM-001 bioMérieux Tempo Filler and Reader											
Running on : 07/03/22 17:03:05											
Dilution : 90											
Reagent : N/A											
Consumables : 2030190; 2304090; 2304090; 61630-123C6-123E											
Pipette : GA-154											
Total yeast and mold testing is performed utilizing MPN and traditional culture based techniques in accordance with F.S. Rule 64ER20-39.											

<div> Mycotoxins</div>						<div><div>PASSED</div></div>					
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: 3404, 3134, 2338, 3298	Weight: 1.1249g	Extraction date: 07/03/22 09:29:25	Extracted by: 3134								
Analysis Method : SOP.T.30.101.FL, SOP.T.40.101.FL, SOP.T.30.102.FL, SOP.T.40.102.FL											
Analytical Batch : GA046349MYC			Reviewed On : 07/05/22 12:37:13								
Instrument Used : GA-LCMS-001 MYC			Batch Date : 07/03/22 10:59:44								
Running on : 07/03/22 12:19:44											
Dilution : N/A											
Reagent : aflatoxin_b2; aflatoxin_b1; aflatoxin_g1; aflatoxin_g2											
Consumables : 0.02; 0.02; 0.02; 0.02											
Pipette : N/A											
Mycotoxins testing utilizing Liquid Chromatography with Triple-Quadrupole Mass Spectrometry in accordance with F.S. Rule 64ER20-39.											

<div><div>Hg</div></div> Heavy Metals						<div><div>PASSED</div></div>					
Metal	LOD	Units	Result	Pass / Fail	Action Level						
ARSENIC	0.02	PPM	<0.1	PASS	1.5						
CADMIUM	0.02	PPM	ND	PASS	0.5						
MERCURY	0.02	PPM	ND	PASS	3						
LEAD	0.05	PPM	<0.25	PASS	0.5						
Analyzed by: 3404, 3571, 3317, 2338	Weight: 0.4613g	Extraction date: 07/02/22 14:36:52	Extracted by: 3571								
Analysis Method : SOP.T.30.081.FL, SOP.T.30.082.FL, SOP.T.40.081.FL, SOP.T.40.082.FL											
Analytical Batch : GA046292HEA			Reviewed On : 07/03/22 10:08:17								
Instrument Used : GA-ICPMS-002											
Running on : N/A											
Dilution : 100											
Reagent : 052422.R35; 062222.R63; 010421.48; 061621.03; 041622.R02; 051622.R03; 041722.R01; 042022.R45											
Consumables : CGR0114; 12455-202CD-202C; L2019501											
Pipette : GA-012; GA-183; GA - 194; GA-195; GA-193											
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**
**Homogeneity**
**PASSED**

Amount of tests conducted : 24

Analyte	LOD	Units	Result	P/F	Action Level
Filth and Foreign Material	1	%	ND	PASS	5

Analyzed by:	Weight:	Extraction date:	Extracted by:
3404, 3209, 1541	158g	07/02/22 14:09:49	3209

Analysis Method : SOP.T.30.074, SOP.T.40.074

Analytical Batch : GA046324FIL

Instrument Used : GA-Filth/Foreign Material Microscope

Running on : N/A

Reviewed On : 07/02/22 18:08:17

Batch Date : 07/02/22 13:18:51

Dilution : N/A

Reagent : N/A

Consumables : N/A

Pipette : N/A

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	0.653	PASS	0.85

Analyzed by:	Weight:	Extraction date:	Extracted by:
3404, 3599, 1541	2.8219g	07/02/22 15:23:19	3599

Analysis Method : SOP.T.40.019

Analytical Batch : GA046330WAT

Instrument Used : GA-203 Rotronic HygroPalm

Running on : N/A

Reviewed On : 07/02/22 17:56:05

Batch Date : 07/02/22 13:50:30

Dilution : N/A

Reagent : N/A

Consumables : 107264

Pipette : N/A

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

Analyte	LOD	Units	Pass/Fail	Result	Action Level
TOTAL THC - HOMOGENEITY (RSD)	0.001	%	PASS	3.184	25
TOTAL CBD - HOMOGENEITY (RSD)	0.001	%	PASS	ND	25

Analyzed by

3404, 3134, 2507, 3205, 1541

Average Weight

2.642g

Extraction date :

07/02/22 14:13:16

Extracted By :

3134

Analysis Method : SOP.T.30.111.FL, SOP.T.40.111.FL

Analytical Batch : GA046332HOM

Instrument Used : GA-HPLC-001 HOM

Running on : 07/02/22 17:48:34

Reviewed On : 07/03/22 17:24:09

Batch Date : 07/02/22 13:52:37

Dilution : 40

Reagent : 013122.10; 020322.R09; 070122.01; 061621.03; 061122.R33; 062122.R33

Consumables : 947.271; 470228-424; 9291.271; LLS-00-0005; 12455-202CD-202C;

RONB32898; 29802917; 000000146137; 944C4 944J; 209598; 206639

Pipette : GA-002; GA-006; GA-013; GA-196; GA-209 Dispenser

Homogeneity testing is performed utilizing High Performance Liquid Chromatography with UV detection in accordance with F.S. Rule 64ER20-39.