



# Certificate of Analysis

Jul 30, 2022 | Southern Sun

 11613 SW 234th St  
 Archer, FL, 32618, US

**Sample: GA20726004-001**
**Harvest/Lot ID: 20**
**Batch#: 0822GM**
**Seed to Sale# N/A**
**Batch Date: N/A**
**Sample Size Received: 1 units**
**Total Batch Size: 1 gram**
**Retail Product Size: 69.5 gram**
**Ordered : 07/26/22**
**Sampled : 07/26/22**
**Completed: 07/30/22**
**Sampling Method: SOP.T.20.010.FL**
**PASSED**

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**PRODUCT IMAGE**


Plastic Jar

**SAFETY RESULTS**

 Pesticides  
**PASSED**

 Heavy Metals  
**PASSED**

 Microbials  
**PASSED**

 Mycotoxins  
**PASSED**

 Residuals Solvents  
**PASSED**

 Filtration  
**PASSED**

 Water Activity  
 NOT TESTED

 Moisture  
 NOT TESTED

 Terpenes  
 NOT TESTED

**MISC.**

**Cannabinoid**
**PASSED**

**Total THC**  
**0.031%**

**Total CBD**  
**0.76%**

**Total Cannabinoids**  
**0.838%**

%	D9-THC	THCA	CBD	CBDa	D8-THC	CBG	CBGA	CBN	THCV	CBDV	CBC
mg/unit	21.545	<6.95	528.2	ND	ND	11.815	ND	<6.95	ND	<6.95	20.85
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:  
 3404, 3655, 3205, 1541

 Weight:  
 3.1083g

 Extraction date:  
 07/27/22 09:38:44

 Extracted by:  
 3655

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

Analytical Batch : GA047456POT

Instrument Used : GA-HPLC-003 2030C PDA

Running on : 07/27/22 13:41:01

Reviewed On : 07/28/22 08:15:28

Batch Date : 07/26/22 12:13:36

Dilution : 40

Reagent : 010421.48; 062822.35; 020322.R09; 013122.12; 071522.04; 070222.R03; 071922.R31

Consumables : 947.109; H20364; 9291.271; LLS-00-0005; 12455-202CD-202C; RONB32898; 000000146137; 944C4 944J; 210268; 212938

Pipette : GA-005; GA-007; GA-011; GA-149; GA-153; GA-169 (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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 Email: southernuncbd@gmail.com

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Harvest/Lot ID: 20

Batch# : 0822GM

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Total Batch Size : 1 gram

Completed : 07/30/22 Expires: 07/30/23

Sample Method : SOP Client Method

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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	30	PASS	ND	PACLOBUTRAZOL	0.01	ppm	0.1	PASS	ND
TOTAL DIMETHOMORPH	0.01	PPM	3	PASS	ND	PHOSMET	0.01	ppm	0.2	PASS	ND
TOTAL PERMETHRIN	0.01	ppm	1	PASS	ND	PIPERONYL BUTOXIDE	0.01	ppm	3	PASS	ND
TOTAL SPINETORAM	0.01	PPM	3	PASS	ND	PRALLETHRIN	0.01	ppm	0.4	PASS	ND
TOTAL SPINOSAD	0.01	ppm	3	PASS	ND	PROPICONAZOLE	0.01	ppm	1	PASS	ND
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
ACEQUINOXYL	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
CLOFENTEZINE	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						
DICHLORVOS	0.01	ppm	0.1	PASS	ND	Analyzed by:	Weight:	Extraction date:	Extracted by:		
DIMETHOATE	0.01	ppm	0.1	PASS	ND	3404, 3575, 3303, 1541	1.0231g	07/27/22 14:10:54	3575		
ETHOPROPHOS	0.01	ppm	0.1	PASS	ND	Analysis Method :					
ETOFENPROX	0.01	ppm	0.1	PASS	ND	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,					
ETOXAZOLE	0.01	ppm	1.5	PASS	ND	SOP.T.40.151.FL					
FENHEXAMID	0.01	ppm	3	PASS	ND	Analytical Batch :					
FENOXYCARB	0.01	ppm	0.1	PASS	ND	GA047483PES					
FENPYROXIMATE	0.01	ppm	2	PASS	ND	Instrument Used :					
FIPRONIL	0.01	ppm	0.1	PASS	ND	GA-LCMS-001 PES					
FLONICAMID	0.01	ppm	2	PASS	ND	Running on :					
FLUDIOXONIL	0.01	ppm	3	PASS	ND	07/27/22 17:26:02					
HEXYTHIAZOX	0.01	ppm	2	PASS	ND	Dilution :					
IMAZALIL	0.01	ppm	0.1	PASS	ND	10					
IMIDACLOPRID	0.01	ppm	1	PASS	ND	Reagent :					
KRESOXIM-METHYL	0.01	ppm	1	PASS	ND	072022.R65; 011122.06; 070322.R19; 071022.R01					
MALATHION	0.01	ppm	2	PASS	ND	Consumables :					
METALAXYL	0.01	ppm	3	PASS	ND	947.109; 470228-424; 9291.271; LLS-00-0005; 89012-780; 296055173; 210268					
METHIOCARB	0.01	ppm	0.1	PASS	ND	Pipette :					
METHOMYL	0.01	ppm	0.1	PASS	ND	GA-002; GA-210 Dispenser					
MEVINPHOS	0.01	ppm	0.1	PASS	ND	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.					
MYCLOBUTANIL	0.01	ppm	3	PASS	ND	Analyzed by:	Weight:	Extraction date:	Extracted by:		
NALED	0.01	ppm	0.5	PASS	ND	3404, 3575, 2155, 1541	1.0231g	07/27/22 14:10:54	3575		
OXAMYL	0.01	ppm	0.5	PASS	ND	Analysis Method :					
						SOP.T.30.060, SOP.T.40.060					
						Analytical Batch :					
						GA047535VOL					
						Instrument Used :					
						GA-GCMS-003					
						Running on :					
						07/27/22 17:27:28					
						Dilution :					
						100					
						Reagent :					
						072022.R65; 011122.06; 070822.R07					
						Consumables :					
						947.109; 470228-424; 9291.271; LLS-00-0005; 89012-780; 296055173; 210268;					
						15144001; 944C4 944J; 206639					
						Pipette :					
						GA-002; GA-146; GA-182; 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.					



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**Harvest/Lot ID:** 20

**Batch# :** 0822GM

**Sampled :** 07/26/22

**Ordered :** 07/26/22

**Sample Size Received :** 1 units

**Total Batch Size :** 1 gram

**Completed :** 07/30/22 **Expires:** 07/30/23

**Sample Method :** SOP Client Method

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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
TOTAL XYLENES	15	ppm	150	PASS	ND
PROPANE	500	ppm	5000	PASS	ND
CHLOROFORM	0.2	ppm	2	PASS	ND
BUTANES (N-BUTANE)	500	ppm	5000	PASS	ND
1,2-DICHLOROETHANE	0.2	ppm	2	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 :** GA047501SOL

**Instrument Used :** GA-GCMS-001 Headspace Solvent

**Running on :** 07/27/22 10:17:24

**Reviewed On :** 07/28/22 13:00:49

**Batch Date :** 07/27/22 09:38:32

**Dilution :** N/A

**Reagent :** N/A

**Consumables :** 27296; 854996

**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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Batch# : 0822GM

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Completed : 07/30/22 Expires: 07/30/23

Sample Method : SOP Client Method

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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
ESCHERICHIA COLI SHIGELLA SPP			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							
LISTERIA MONOCYTOGENES			Not Present	PASS							
Analyzed by: 3404, 1790, 1541 Weight: 1.2g Extraction date: 07/28/22 14:37:06 Extracted by: 1790 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 : GA047468MIC Instrument Used : GA-MIC-001 bioMérieux Gene Up RT-PCR Running on : 07/28/22 14:39:12 Dilution : 90 Reagent : 032922.08; 031922.R05; 071622.R05 Consumables : 1009123020; SSC006; 2030190; BUG027; ASP119; 1008518330; 2059590; BDG200111; 41064-115C4-115 B; 61630-123C6-123E; 8LCJ0511R; 1008518500 Pipette : GA-020; GA-154; GA-140						Analyzed by: 3404, 3575, 3303, 1541 Weight: 1.0231g Extraction date: 07/27/22 14:10:54 Extracted by: 3575 Analysis Method : SOP.T.30.101.FL, SOP.T.40.101.FL, SOP.T.30.102.FL, SOP.T.40.102.FL Analytical Batch : GA047534MYC Instrument Used : GA-LCMS-001 MYC Running on : 07/27/22 17:26:06 Dilution : 10 Reagent : 072022.R65; 011122.06; 070322.R19; 071022.R01 Consumables : 947.109; 470228-424; 9291.271; LLS-00-0005; 89012-780; 296055173; 210268 Pipette : GA-002; GA-210 Dispenser					
Microbial testing is performed utilizing various technologies including: PCR, RTPCR, MPN, and traditional culture based techniques in accordance with F.S. Rule 64ER20-39..						Mycotoxins testing utilizing Liquid Chromatography with Triple-Quadrupole Mass Spectrometry in accordance with F.S. Rule 64ER20-39.					



## Heavy Metals

**PASSED**

Metal	LOD	Units	Result	Pass / Fail	Action Level
TOTAL CONTAMINANT LOAD METALS	0.11	PPM	ND	PASS	5
ARSENIC	0.02	PPM	ND	PASS	1.5
CADMIUM	0.02	PPM	ND	PASS	0.5
MERCURY	0.02	PPM	ND	PASS	3
LEAD	0.05	PPM	ND	PASS	0.5
Analyzed by: 3404, 3571, 2338, 1541 Weight: 0.5012g Extraction date: 07/27/22 10:02:10 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 : GA047410HEA Instrument Used : GA-ICPMS-002 Running on : 07/27/22 12:59:16 Dilution : 100 Reagent : 052422.R35; 070522.R18; 010421.48; 071522.04; 071522.R33; 071922.R23; 071922.R24; 042022.R45 Consumables : GA-194; GA-195; CGR0114; 12455-202CD-202C; 210268; L2019501 Pipette : GA-012; GA-183; 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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**Sample Method : SOP Client Method**

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**Filth/Foreign  
Material**
**PASSED**

Analyte	LOD	Units	Result	P/F	Action Level
<b>Filth and Foreign Material</b>	0.5	%	ND	<b>PASS</b>	1

<b>Analyzed by:</b> 3404, 3192, 1541	<b>Weight:</b> 69.5g	<b>Extraction date:</b> 07/27/22 08:53:31	<b>Extracted by:</b> 3192
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**Analysis Method :** SOP.T.30.074, SOP.T.40.074

**Analytical Batch :** GA047493FIL

**Instrument Used :** GA-Filth/Foreign Material Microscope

**Running on :** N/A

**Reviewed On :** 07/28/22 08:26:46

**Batch Date :** 07/27/22 08:52:57

**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.