



Certificate of Analysis

Feb 19, 2021 | Southern Sun

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


Sample:GA10216001-004

Harvest/Lot ID: 1000mg CBD Broad Spectrum Citrus

Seed to Sale #N/A

Batch Date :02/15/21

Batch#: 1000mg CBD Broad Spectrum Citrus

Sample Size Received: 11 gram

Total Weight/Volume: N/A

Retail Product Size: 30 gram

Ordered : 02/16/21

sampled : 02/16/21

Completed: 02/19/21

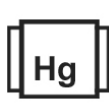
Sampling Method: SOP Client Method

PASSED

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PRODUCT IMAGE

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
CANNABINOID RESULTS

Total THC
0.000%

TOTAL THC/Container :0.000 mg


Total CBD
3.049%

TOTAL CBD/Container :914.793 mg


Total Cannabinoids
3.120%

Total Cannabinoids/Container
:936.003 mg

	CBDV	CBDA	CBGA	CBG	CBD	THCV	CBN	D9-THC	D8-THC	CBC	THCA
%	0.0120	<0.010	ND	0.0210	3.0490	ND	0.0170	ND	ND	0.0180	ND
mg/g	0.1200	<0.010	ND	0.2100	30.4900	ND	0.1700	ND	ND	0.1800	ND
LOD	0.0010	0.0010	0.0010	0.0010	0.0001	0.0010	0.0010	0.0001	0.0010	0.0010	0.0010
%	%	%	%	%	%	%	%	%	%	%	%

Filtration	PASSED
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Analyzed By	Weight	Extraction date	Extracted By
1791	79.5g	02/16/21	1791
Analyte			LOD
Filtration and Foreign Material			0.1
Analysis Method -SOP.T.40.013		Batch Date : 02/16/21 11:00:58	Result
Analytical Batch -GA022540FIL		Reviewed On - 02/16/21 13:36:01	ND
Instrument Used : GA-Filtration/Foreign Material Microscope			

This includes but is not limited to hair, insects, feces, packaging contaminants, and manufacturing waste and by-products. An SH-2B/T Stereo Microscope is used for inspection.

Cannabinoid Profile Test

Analyzed by	Weight	Extraction date :	Extracted By :
2338	3.0202g	02/16/21 03:02:35	2338
Analysis Method -SOP.T.40.020, SOP.T.30.050		Reviewed On - 02/17/21 13:25:00	Batch Date : 02/16/21 08:50:44
Analytical Batch -GA022517POT		Instrument Used : GA-HPLC-001 2030C Plus (Carl)	

Reagent	Dilution	Consums. ID
010621.18	40	282066106
020821.R06		VAV-09-1020 Lot# 947.077
020821.R05		6970145500298
		190624060
		16466-042

Full spectrum cannabinoid analysis utilizing High Performance Liquid Chromatography with UV detection (HPLC-UV). (Method: SOP.T.30.050 for sample prep and Shimadzu High Sensitivity Method SOP.T.40.020 for analysis. LOQ for all cannabinoids is 1 mg/L).

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Rob Bruton
Lab Director

State License # CMTL-0001
ISO Accreditation # ISO/IEC
17025:2017 Accreditation
PJLA-Testing 97164

Signature

02/19/21

Signed On



Certificate of Analysis

PASSED

11613 SW 234th St
Archer, FL, 32618, US
Telephone: (954) 336-1166
Email: southernuncbd@gmail.com

Sample : GA10216001-004

Harvest/LOT ID: 1000mg CBD Broad Spectrum Citrus

Batch# : 1000mg CBD
Broad Spectrum Citrus

Sampled : 02/16/21

Ordered : 02/16/21

Sample Size Received : 11 gram

Total Weight/Volume : N/A

Completed : 02/19/21 **Expires:** 02/19/22

Sample Method : SOP Client Method

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Pesticides

PASSED

Pesticides	LOD	Units	Action Level	Result	Pesticides	LOD	Units	Action Level	Result
ABAMECTIN B1A	0.01	ppm	0.3	ND	PYRETHRINS	0.05	ppm	1	ND
ACEPHATE	0.01	ppm	3	ND	PYRIDABEN	0.02	ppm	3	ND
ACEQUINOCYL	0.01	ppm	2	ND	SPIROMESIFEN	0.01	ppm	3	ND
ACETAMIPRID	0.01	ppm	3	ND	SPIROTETRAMAT	0.01	ppm	3	ND
ALDICARB	0.01	ppm	0.1	ND	SPIROXAMINE	0.01	ppm	0.1	ND
AZOXYSTROBIN	0.01	ppm	3	ND	TEBUCONAZOLE	0.01	ppm	1	ND
BIFENAZATE	0.01	ppm	3	ND	THIACLOPRID	0.01	ppm	0.1	ND
BIFENTHRIN	0.01	ppm	0.5	ND	THIAMETHOXAM	0.05	ppm	1	ND
BOSCALID	0.01	PPM	3	ND	TOTAL CONTAMINANT LOAD (PESTICIDES)	0.01	PPM	20	ND
CARBARYL	0.05	ppm	0.5	ND	TOTAL DIAZINON	0.01	PPM	0.2	ND
CARBOFURAN	0.01	ppm	0.1	ND	TOTAL DIMETHOMORPH	0.02	PPM	3	ND
CHLORANTRANILIPROLE	0.1	ppm	3	ND	TOTAL PERMETHRIN	0.01	ppm	1	ND
CHLORMEQUAT CHLORIDE	0.1	ppm	3	ND	TOTAL SPINETORAM	0.02	PPM	3	ND
CHLORPYRIFOS	0.01	ppm	0.1	ND	TOTAL SPINOSAD	0.01	ppm	3	ND
CLOFENTEZINE	0.02	ppm	0.5	ND	TRIFLOXYSTROBIN	0.01	ppm	3	ND
COUMAPHOS	0.01	ppm	0.1	ND					
DAMINOZIDE	0.01	ppm	0.1	ND					
DICHLORVOS	0.01	ppm	0.1	ND					
DIMETHOATE	0.01	ppm	0.1	ND					
ETHOPROPHOS	0.01	ppm	0.1	ND					
ETOFENPROX	0.01	ppm	0.1	ND					
ETOXAZOLE	0.01	ppm	1.5	ND					
FENHEXAMID	0.01	ppm	3	ND					
FENOXYCARB	0.01	ppm	0.1	ND					
FENPYROXIMATE	0.01	ppm	2	ND					
FIPRONIL	0.01	ppm	0.1	ND					
FLONICAMID	0.01	ppm	2	ND					
FLUDIOXONIL	0.01	ppm	3	ND					
HEXYTHIAZOX	0.01	ppm	2	ND					
IMAZALIL	0.01	ppm	0.1	ND					
IMIDACLOPRID	0.04	ppm	3	ND					
KRESOXIM-METHYL	0.01	ppm	1	ND					
MALATHION	0.02	ppm	2	ND					
METALAXYL	0.01	ppm	3	ND					
METHIOCARB	0.01	ppm	0.1	ND					
METHOMYL	0.01	ppm	0.1	ND					
MEVINPHOS	0.01	ppm	0.1	ND					
MYCLOBUTANIL	0.01	ppm	3	ND					
NALED	0.025	ppm	0.5	ND					
OXAMYL	0.05	ppm	0.5	ND					
PACLOBUTRAZOL	0.01	ppm	0.1	ND					
PHOSMET	0.01	ppm	0.2	ND					
PIPERONYL BUTOXIDE	0.3	ppm	3	ND					
PRALLETHRIN	0.01	ppm	0.4	ND					
PROPICONAZOLE	0.01	ppm	1	ND					
PROPOXUR	0.01	ppm	0.1	ND					



Pesticides

PASSED
Analyzed by

1850, 1541

Weight

0.9973g

Extraction date

02/17/21 10:02:39

Extracted By

1791, 1791

Analysis Method - SOP.T.30.065, SOP.T.40.065, SOP.T.40.066, SOP.T.40.070, SOP.T.30.065,

SOP.T40.070

Analytical Batch - GA022566PES, GA022576VOL

Reviewed On - 02/16/21

13:36:01

Instrument Used : GA-LCMS-001 Pes, GA-GCMS-003 Triple Quad Pest (Indica)

Running On : 02/18/21 13:56:12, 02/18/21 16:43:26

Batch Date : 02/17/21 07:42:15

Reagent
Dilution

10

Consums. ID

282066106

VAV-09-1020 Lot# 947.077

6970145500298

P734631 / P7411895

16466-042

Pesticide screen is performed using LC-MS and/or GC-MS which can screen down to below single digit ppb concentrations for regulated Pesticides. Currently we analyze for 67 Pesticides. (Method: SOP.T.30.060 Sample Preparation for Pesticides Analysis via LCMSMS and GCMSMS.

SOP.T40.065/SOP.T.40.066/SOP.T.40.070 Procedure for Pesticide Quantification Using LCMS and GCMS). * Volatile Pesticide screening is performed using GC-MS which can screen down to below single digit ppb concentrations for regulated Pesticides. Analytes marked with an asterisk were tested using GC-MS.

Rob Bruton

Lab Director

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PJLA-Testing 97164


Signature

02/19/21

Signed On



Certificate of Analysis

PASSED

 11613 SW 234th St
 Archer, FL, 32618, US
Telephone: (954) 336-1166
Email: southernuncbd@gmail.com

Sample : GA10216001-004

Harvest/LOT ID: 1000mg CBD Broad Spectrum Citrus

Batch# : 1000mg CBD
 Broad Spectrum Citrus

Sampled : 02/16/21

Ordered : 02/16/21

Sample Size Received : 11 gram

Total Weight/Volume : N/A

Completed : 02/19/21 **Expires:** 02/19/22

Sample Method : SOP Client Method

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	Residual Solvents	PASSED
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	Residual Solvents	PASSED
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Solvent	LOD	Units	Action Level (PPM)	Pass/Fail	Result
METHANOL	25	ppm	250	PASS	<125.000
ETHANOL	500	ppm		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
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 2155	Weight 0.0225g	Extraction date 02/16/21 02:02:56	Extracted By 2155
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Analysis Method -SOP.T.40.032
Analytical Batch -GA022543SOL **Reviewed On - 02/18/21 11:55:53**
Instrument Used : GA-GCMS-001 Headspace Solvent
Running On : 02/17/21 08:01:56
Batch Date : 02/16/21 11:46:08

Reagent	Dilution	Consums. ID
		24154107 ach-20-1720

Residual solvents screening is performed using GC-MS which can detect below single digit ppm concentrations. Currently we analyze for 21 Residual solvents. (Method: SOP.T.40.032 Residual Solvents Analysis via GC-MS).



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Sample : GA10216001-004
Harvest/LOT ID: 1000mg CBD Broad Spectrum Citrus
Batch# : 1000mg CBD
 Broad Spectrum Citrus

Sampled : 02/16/21

Ordered : 02/16/21

Sample Size Received : 11 gram

Total Weight/Volume : N/A

Completed : 02/19/21 **Expires:** 02/19/22

Sample Method : SOP Client Method

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	Microbials	PASSED
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Analyte	LOD	Result	Action Level (cfu/g)
ESCHERICHIA_COLI_SHIGELLA_SPP		not present in 1 gram.	
SALMONELLA_SPECIFIC_GENE		not present in 1 gram.	
ASPERGILLUS_FLAVUS		not present in 1 gram.	
ASPERGILLUS_FUMIGATUS		not present in 1 gram.	
ASPERGILLUS_TERREUS		not present in 1 gram.	
ASPERGILLUS_NIGER		not present in 1 gram.	

Analysis Method -SOP.T.40.043 / SOP.T.40.044 / SOP.T.40.041
Analytical Batch -GA022553MIC Batch Date : 02/16/21
Instrument Used : GA-093 PathogenDx Scanner (MIC)
Running On :

Analyzed by	Weight	Extraction date	Extracted By
1828	0.96g	02/16/21	2119

Reagent	Dilution	Consums. ID
020121.24	10	001001 001001 002005

Microbiological testing for Fungal and Bacterial Identification via Polymerase Chain Reaction (PCR) method consisting of sample DNA amplified via tandem Polymerase Chain Reaction (PCR) as a crude lysate which avoids purification. (Method SOP.T.40.043) If a pathogenic Escherichia Coli, Salmonella, Aspergillus fumigatus, Aspergillus flavus, Aspergillus niger, or Aspergillus terreus is detected in 1g of a sample, the sample fails the microbiological-impurity testing. Pour-plating is used for quantitation and confirmation, Total Yeast and Mold has an action limit of 100,000 CFU.

	Mycotoxins	PASSED
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Analyte	LOD	Units	Result	Action Level (PPM)
AFLATOXIN G2	0.002	ppm	ND	0.02
AFLATOXIN G1	0.002	ppm	ND	0.02
AFLATOXIN B2	0.002	ppm	ND	0.02
AFLATOXIN B1	0.002	ppm	ND	0.02
TOTAL OCHRATOXIN A	0.002	PPM	ND	0.02

Analysis Method -SOP.T.30.065, SOP.T.40.065
Analytical Batch -GA022616MYC | Reviewed On - 02/19/21 18:02:47
Instrument Used : GA-LCMS-001 MYC
Running On : 02/18/21 13:56:19
Batch Date : 02/17/21 14:11:35

Analyzed by	Weight	Extraction date	Extracted By
1850	0.9973g	NA	NA

Aflatoxins B1, B2, G1, G2, and Ochratoxins A testing using LC-MS. (Method: SOP.T.30.065 for Sample Preparation and SOP.T.40.065 Procedure for Mycotoxins Quantification Using LCMS. LOQ 1.0 ppb). Aflatoxin B1, B2, G1, and G2 must individually be <20ug/Kg. Ochratoxins must be <20ug/Kg.

	Heavy Metals	PASSED
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Reagent	Reagent	Dilution	Consums. ID
092920.39	012021.R12	50	190624060
021121.R14			106667-05-100719
021021.R45			
081420.12			
110519.13			
020921.R03			

Metal	LOD	Unit	Result	Action Level (PPM)
ARSENIC	0.02	PPM	ND	1.5
CADMIUM	0.02	PPM	ND	0.5
MERCURY	0.02	PPM	ND	3
LEAD	0.05	PPM	ND	0.5

Analyzed by	Weight	Extraction date	Extracted By
650	0.5031g	02/16/21 04:02:36	2206

Analysis Method -SOP.T.40.050, SOP.T.30.052
Analytical Batch -GA022518HEA | Reviewed On - 02/17/21 15:10:22
Instrument Used : GA-ICPMS-001-DER (Ice Princess)
Running On :
Batch Date : 02/16/21 08:50:52

Heavy Metals screening is performed using ICP-MS (Inductively Coupled Plasma - Mass Spectrometer) which can screen down to below single digit ppb concentrations for regulated heavy metals using Method SOP.T.30.052 Sample Preparation for Heavy Metals Analysis via ICP-MS and SOP.T.40.050 Heavy Metals Analysis via ICP-MS.

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 PJLA-Testing 97164


 Signature

02/19/21

Signed On