



# Certificate of Analysis

Sample: DA00709015-002  
Harvest/Lot ID: W3RR 01-0720  
Seed to Sale #N/A  
Batch Date :N/A  
Batch#: W3RR 01-0720  
Sample Size Received: 15 ml  
Total Weight/Volume: N/A  
Retail Product Size: 30 ml gram  
Ordered : 07/06/20  
sampled : 07/06/20  
Completed: 07/17/20  
Sampling Method: SOP Client Method

Jul 17, 2020 | Carolina Cannabinoids LLC.

5104 Reagan Drive  
Charlotte, NC, 28206, US



**PASSED**

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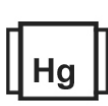
## PRODUCT IMAGE



## 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**

## MISC.

## CANNABINOID RESULTS



Total THC  
**0.200%**

THC/Container :57.600 mg



Total CBD  
**17.570%**

CBD/Container :5060.442 mg



Total Cannabinoids  
**18.363%**

Total Cannabinoids/Container  
:5288.544 mg

TOTAL CA	TOTAL CB	TOTAL TH	CBC	CBGA	CBG	THCV	DB-THC	CBDV	CBN	CBDA	CBD	DB-THC	THCA
%	%	%	%	%	%	%	%	%	%	%	%	%	%
18.3630	17.5700	0.2000	ND	ND	0.2520	ND	ND	0.2260	ND	0.9270	16.7580	0.2000	ND
mg/g	mg/g	mg/g	mg/g	mg/g	mg/g	mg/g	mg/g	mg/g	mg/g	mg/g	mg/g	mg/g	mg/g
183.6300	175.7000	2.0000	ND	ND	2.5200	ND	ND	2.2599	ND	9.2700	167.5800	2.0000	ND
LOD	LOD	LOD	LOD	LOD	LOD	LOD	LOD	LOD	LOD	LOD	LOD	LOD	LOD
0.0000	0.0010	0.0010	0.0010	0.0010	0.0010	0.0010	0.0010	0.0010	0.0010	0.0010	0.0001	0.0001	0.0010

Filtration	PASSED
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Analyzed By	Weight	Extraction date	Extracted By	NA
457	1g	NA	965	Result
Analysis				ND
Filtration and Foreign Material				
Analysis Method -SOP.T.40.013		Batch Date : 07/09/20 09:49:10		
Analytical Batch -DA013816FIL		Reviewed On - 07/09/20 11:43:30		
Instrument Used : Filtration/Foreign Material Microscope				

This includes but is not limited to hair, insects, feces, packaging contaminants, and manufacturing waste and by-products. An SH-28/T Stereo Microscope is used for inspection.

## Cannabinoid Profile Test

Analyzed by	Weight	Extraction date :	Extracted By :
450	0.1083g	07/15/20 01:07:43	965
Analysis Method -SOP.T.40.020, SOP.T.30.050		Reviewed On : 07/17/20 13:12:13	Batch Date : 07/15/20 11:15:05
Analytical Batch -DA013981POT		Instrument Used : DA-LC-003	

Reagent	Dilution	Consums. ID
061620.02	400	280678841
071420.R23		918C4-918
071420.R22		914C4-914AK
		929C6-929H

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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Jorge Segredo  
Lab Director

State License # CMTL-0002  
ISO Accreditation # ISO/IEC  
17025:2017 Accreditation  
PJLA-Testing 97164

  
Signature

07/17/20

Signed On



# Certificate of Analysis

**PASSED**

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 Charlotte, NC, 28206, US  
**Telephone:** (919) 961-2204  
**Email:**  
 barany.jeganatth@carolinacannabinoids.us

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**Harvest/LOT ID: W3RR 01-0720**
**Batch# : W3RR 01-0720**
**Sampled : 07/06/20**
**Ordered : 07/06/20**
**Sample Size Received : 15 ml**
**Total Weight/Volume : N/A**
**Completed : 07/17/20 Expires: 07/17/21**
**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	PRALLETHRIN	0.01	ppm	0.4	ND
ACEPHATE	0.01	ppm	3	ND	PROPICONAZOLE	0.01	ppm	1	ND
ACEQUINOCYL	0.01	ppm	2	ND	PROPOXUR	0.01	ppm	0.1	ND
ACETAMIPRID	0.01	ppm	3	ND	PYRETHRINS	0.05	ppm	1	ND
ALDICARB	0.01	ppm	0.1	ND	PYRIDABEN	0.02	ppm	3	ND
AZOXYSTROBIN	0.01	ppm	3	ND	SPINETORAM	0.02	PPM	3	ND
BIFENAZATE	0.01	ppm	3	ND	SPIROMESIFEN	0.01	ppm	3	ND
BIFENTHRIN	0.01	ppm	0.5	ND	SPIROTETRAMAT	0.01	ppm	3	ND
BOSCALID	0.01	PPM	3	ND	SPIROXAMINE	0.01	ppm	0.1	ND
CARBARYL	0.05	ppm	0.5	ND	TEBUCONAZOLE	0.01	ppm	1	<0.050
CARBOFURAN	0.01	ppm	0.1	ND	THIACLOPRID	0.01	ppm	0.1	ND
CHLORANTRANILIPROLE	0.1	ppm	3	ND	THIAMETHOXAM	0.05	ppm	1	ND
CHLORMEQUAT CHLORIDE	0.05	ppm	3	ND	TOTAL CONTAMINANT LOAD (PESTICIDES)	0	PPM	20	ND
CHLORPYRIFOS	0.01	ppm	0.1	ND	TOTAL PERMETHRIN	0.01	ppm	1	ND
CLOFENTEZINE	0.02	ppm	0.5	ND	TOTAL SPINOSAD	0.01	ppm	3	ND
COUMAPHOS	0.01	ppm	0.1	ND	TRIFLOXYSTROBIN	0.01	ppm	3	ND
DAMINOZIDE	0.01	ppm	0.1	ND	CHLORDANE *	0.01	PPM	0.1	ND
DIAZANON	0.01	ppm	0.2	ND	PENTACHLORONITROBENZENE (PCNB) *	0.01	PPM	0.2	ND
DICHLORVOS	0.01	ppm	0.1	ND	PARATHION-METHYL *	0.01	PPM	0.1	ND
DIMETHOATE	0.01	ppm	0.1	ND	CAPTAN *	0.025	PPM	3	ND
DIMETHOMORPH	0.02	ppm	3	ND	CHLORFENAPYR *	0.01	PPM	0.1	ND
ETHOPROPHOS	0.01	ppm	0.1	ND	CYFLUTHRIN *	0.01	PPM	1	ND
ETOFENPROX	0.01	ppm	0.1	ND	CYPERMETHRIN *	0.01	PPM	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					
METHYL PARATHION	0.005	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	0.1	ppm	3	ND					



## Pesticides

**PASSED**

<b>Analyzed by</b> 585 , 1665	<b>Weight</b> 1.0373g	<b>Extraction date</b> 07/09/20 01:07:38	<b>Extracted By</b> 1062 , 1665
Analysis Method - SOP.T.30.065, SOP.T.40.065, SOP.T.40.066, SOP.T.40.070 , SOP.T.30.065, SOP.T.40.070			
Analytical Batch - DA013809PES , DA013863VOL		Reviewed On- 07/09/20 11:43:30	
Instrument Used : DA-LCMS-001_DER (PES) , DA-GCMS-007		Batch Date : 07/09/20 09:10:29	
<b>Running On :</b>			
<b>Reagent</b>	<b>Dilution</b>	<b>Consums. ID</b>	
052720.01	10	280678841	
070620.021		76262-590	
041720.03			
071020.002			
071020.003			

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.T.40.065/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.

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**Jorge Segredo**  
 Lab Director

 State License # CMTL-0002  
 ISO Accreditation # ISO/IEC  
 17025:2017 Accreditation  
 PJLA-Testing 97164

  
 Signature

07/17/20

Signed On



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**Sample :** DA00709015-002

**Harvest/LOT ID:** W3RR 01-0720

**Batch# :** W3RR 01-0720

**Sampled :** 07/06/20

**Ordered :** 07/06/20

**Sample Size Received :** 15 ml

**Total Weight/Volume :** N/A

**Completed :** 07/17/20 **Expires:** 07/17/21

**Sample Method :** SOP Client Method

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	<b>Residual Solvents</b>	<b>PASSED</b>
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	<b>Residual Solvents</b>	<b>PASSED</b>
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Solvent	LOD	Units	Action Level (PPM)	Pass/Fail	Result
1,1-DICHLOROETHENE	0.8	ppm	8	PASS	ND
1,2-DICHLOROETHANE	0.2	ppm	2	PASS	ND
2-PROPANOL	50	ppm	500	PASS	ND
ACETONE	75	ppm	750	PASS	ND
ACETONITRILE	6	ppm	60	PASS	ND
BENZENE	0.1	ppm	1	PASS	ND
BUTANES (N-BUTANE)	500	ppm	5000	PASS	ND
CHLOROFORM	0.2	ppm	2	PASS	ND
DICHLROMETHANE	12.5	ppm	125	PASS	ND
ETHANOL	500	ppm		PASS	ND
ETHYL ACETATE	40	ppm	400	PASS	ND
ETHYL ETHER	50	ppm	500	PASS	ND
ETHYLENE OXIDE	0.5	ppm	5	PASS	ND
HEPTANE	500	ppm	5000	PASS	ND
METHANOL	25	ppm	250	PASS	ND
N-HEXANE	25	ppm	250	PASS	ND
PENTANES (N-PENTANE)	75	ppm	750	PASS	ND
PROPANE	500	ppm	5000	PASS	ND
TOLUENE	15	ppm	150	PASS	ND
TOTAL XYLENES	15	ppm	150	PASS	ND
TRICHLOROETHYLENE	2.5	ppm	25	PASS	ND

<b>Analyzed by</b> 850	<b>Weight</b> 0.0209g	<b>Extraction date</b> 07/09/20 11:07:25	<b>Extracted By</b> 357
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**Analysis Method -SOP.T.40.032**  
**Analytical Batch -DA013821SOL**  
**Instrument Used : DA-GCMS-002**  
**Running On :**  
**Batch Date : 07/09/20 10:17:57**
**Reviewed On - 07/14/20 14:50:18**

Reagent	Dilution	Consums. ID
	1	H2017.077 00268767 24154107

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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**Harvest/LOT ID: W3RR 01-0720**
**Batch# : W3RR 01-0720**
**Sampled : 07/06/20**
**Ordered : 07/06/20**
**Sample Size Received : 15 ml**
**Total Weight/Volume : N/A**
**Completed : 07/17/20 Expires: 07/17/21**
**Sample Method : SOP Client Method**

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

**Analysis Method -SOP.T.40.043 / SOP.T.40.044 / SOP.T.40.041**
**Analytical Batch -DA013802MIC Batch Date : 07/09/20**
**Instrument Used : PathogenDX PCR\_Array Scanner DA-111,PathogenDX PCR\_DA-171**
**Running On :**

Analyzed by	Weight	Extraction date	Extracted By
513	1.0219g	07/09/20	1082

Reagent	Consums. ID	Consums. ID	Consums. ID	Consums. ID
062220.05	181019-274	19323	A07	2804025
101519.11	SG298A	190827060	2810012C	2808005
030620.12	181207119C	850C6-850H	027	
	918C4-918J	2802018	2811016	
	914C4-914AK	2803029	2807007	
	50AX30819	D003	2809004	

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.

	<b>Mycotoxins</b>	<b>PASSED</b>
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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
OCHRATOXIN A+	0.002	ppm	ND	0.02

**Analysis Method -SOP.T.30.065, SOP.T.40.065**
**Analytical Batch -DA013811MYC | Reviewed On - 07/14/20 16:53:12**
**Instrument Used : DA-LCMS-001\_DER (MYC)**
**Running On :**
**Batch Date : 07/09/20 09:12:05**

Analyzed by	Weight	Extraction date	Extracted By
585	1g	07/09/20 05:07:46	585

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.

	<b>Heavy Metals</b>	<b>PASSED</b>
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Reagent	Dilution	Consums. ID
030920.02	100	89401-566
070920.R01		
062520.R02		
022520.02		
030420.06		
070120.01		

Metal	LOD	Unit	Result	Action Level (PPM)
ARSENIC	0.02	PPM	ND	1.5
CADMIUM	0.02	PPM	ND	0.5
LEAD	0.05	PPM	ND	0.5
MERCURY	0.02	PPM	<0.100	3

Analyzed by	Weight	Extraction date	Extracted By
53	0.2588g	07/09/20 02:07:28	1022

**Analysis Method -SOP.T.40.050, SOP.T.30.052**
**Analytical Batch -DA013804HEA | Reviewed On - 07/13/20 08:37:40**
**Instrument Used : DA-ICPMS-002**
**Running On :**
**Batch Date : 07/09/20 08:51:07**

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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