



Certificate of Analysis

Sample: DA00709015-003
Harvest/Lot ID: W6CF 01-0720
Seed to Sale #N/A
Batch Date :N/A
Batch#: W6CF 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: 07/15/20
Sampling Method: SOP Client Method

Jul 15, 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
0.000%
THC/Container :0.000 mg



Total CBD
28.191%
CBD/Container :8119.241 mg



Total Cannabinoids
29.224%
Total Cannabinoids/Container :8416.800 mg

ANALYTE	UNIT	CONCENTRATION	LOD
TOTAL CA	%	29.2240	0.0000
TOTAL CB	%	28.1910	0.0010
TOTAL TH	%	ND	0.0010
CBC	%	ND	0.0010
CBGA	%	ND	0.0010
CBG	%	0.4260	0.0010
THCV	%	0.0340	0.0010
DB-THC	%	ND	0.0010
CBDV	%	0.4850	0.0010
CBN	%	ND	0.0010
CBDA	%	0.7170	0.0010
CBD	%	27.5630	0.0001
D9-THC	%	ND	0.0001
THCA	%	ND	0.0010

Filtration PASSED

Analyzed By	Weight	Extraction date	Extracted By
457	1g	NA	NA
Analyste			LOD
Filtration and Foreign Material			0
Analysis Method -SOP.T.40.013		Batch Date : 07/09/20 09:49:10	ND
Instrumental Batch -DA013816FIL		Reviewed On - 07/09/20 11:43:37	
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 S1-28/T Stereo Microscope is used for inspection.

Cannabinoid Profile Test

Analyzed by 450	Weight 0.1196g	Extraction date : 07/13/20 10:07:21	Extracted By : 574
Analysis Method -SOP.T.40.020, SOP.T.30.050		Reviewed On - 07/15/20 12:00:14	Batch Date : 07/13/20 11:32:25
Analysis Batch -DA013901POT	Instrument Used : DA-LC-003		

Reagent	Dilution	Consums. ID
061620.02	400	280650306
070920.R20		918C4-918
070920.R19		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

07/15/20

Signed On



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PASSED

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Email:
barany.jeganath@carolinacannabinoids.us

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Batch# : W6CF 01-0720

Sampled : 07/06/20

Ordered : 07/06/20

Sample Size Received : 15 ml

Total Weight/Volume : N/A

Completed : 07/15/20 Expires: 07/15/21

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	ND
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

Analysis by 585 , 1665	Weight 0.9116g	Extraction date 07/09/20 01:07:35	Extracted By 1082
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 11:43:37	
Instrument Used : DA-LCMS-001_DER (PES) , DA-GCMS-007			Batch Date : 07/09/20 09:10:29
Running On :			
Reagent 052720.01 070620.021 041720.03 072020.002 071020.003	Dilution 10	Consums. ID 280678841 76262-590	
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.			

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Jorge Segredo
Lab Director



Signature

07/15/20

Signed On

State License # CMTL-0002
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Certificate of Analysis

PASSED

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barany.jeganatth@carolinacannabinoids.us

Sample : DA00709015-003

Harvest/LOT ID: W6CF 01-0720

Batch# : W6CF 01-0720

Sampled : 07/06/20

Ordered : 07/06/20

Sample Size Received : 15 ml

Total Weight/Volume : N/A

Completed : 07/15/20 Expires: 07/15/21

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
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
DICHLOROMETHANE	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

Analyzed by	Weight	Extraction date	Extracted By
850	0.0228g	07/09/20 11:07:02	357
Analysis Method -SOP.T.40.032		Reviewed On - 07/14/20 14:53:45	
Analytical Batch -DA013821SOL			
Instrument Used : DA-GCMS-002			
Running On :			
Batch Date : 07/09/20 10:17:57			

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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Sample : DA00709015-003

Harvest/LOT ID: W6CF 01-0720

Batch# : W6CF 01-0720

Sampled : 07/06/20

Ordered : 07/06/20

Sample Size Received : 15 ml

Total Weight/Volume : N/A

Completed : 07/15/20 Expires: 07/15/21

Sample Method : SOP Client Method

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Microbials
PASSED



Mycotoxins
PASSED

Analyte	LOD	Result	Action Level (cfu/g)
ASPERGILLUS_FLAVUS		not present in 1 gram.	
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	1.0858g	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.

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 16:53:17
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 05:07:47	585

Aflatoxins B1, B2, G1, G2, and Ochratoxins A testing using LC-MS. (Method: SOP.T.30.065 for Sample Preparation and SOP.T40.065 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

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	<0.250	0.5
MERCURY	0.02	PPM	<0.100	3

Analyzed by	Weight	Extraction date	Extracted By
53	0.2553g	07/09/20 02:07:23	1022

Analysis Method -SOP.T.40.050, SOP.T.30.052
Analytical Batch -DA013804HEA | Reviewed On - 07/13/20 08:37:51
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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