



Certificate of Analysis



Sample: DA00128006-002
Harvest/Lot ID: RC 01-1219
Batch#: RC 01-1219
Seed to Sale# N/A
Batch Date: N/A
Sample Size Received: 30 ml
Total Weight/Volume: 30 ml gram
Retail Product Size: 30 ml gram
ordered : 01/23/20
sampled : 01/23/20
Completed: 02/11/20
Sampling Method: SOP Client Method


Feb 11, 2020 | Carolina Cannabinoids LLC.

5104 Reagan Drive
Charlotte, NC, 28206, US



PASSED
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PRODUCT IMAGE	SAFETY RESULTS								MISC.
	 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								PASSED

	Total THC 0 /Container : 0 mg		Total CBD 0 CBD/Container : 1,059.90 mg		Total Cannabinoids 0 Total Cannabinoids / Container : 0
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Cannabinoid Profile Test													Filtration					
TOTAL CANNABINOIDS	TOTAL CBD	TOTAL THC	CBC	CBGA	CBG	THCV	DB-THC	CBDV	CBN	CBDA	CBD	DB-THC	THCA	LOD	Units	Result	P/F	Action Level
0	0	0	0	0	0	0	0	0.007	0	0	3.533	0	0	0	%	0		5
mg/ml	0.001	0.001	0.001	0.001	0.001	0.001	0.001	<0.1	0.001	0.001	0.0001	0.0001	0.001					
LOD	%	%	%	%	%	%	%	%	%	%	%	%	%					

Cannabinoid Profile Test

Analyzed by: 1224 Weight: 3.0535g Extraction date: 01/29/20 12:01:03 Extracted By: 965

Analysis Method -SOP.T.40.031, SOP.T.30.031 Instrument Used: DA-LC-003 Running On: Batch Date: 01/28/20 10:15:10

Dilution : 400
Reagent : 012420.R18; 012820.R10; 012820.R11
Consumables : 76124-662; 5FN-BX-1025; 849C4-849AK; 840C6-840H

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



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5104 Reagan Drive

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Telephone: (919) 961-2204

Email: barany.jeganath@carolinacannabinoids.us

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Odered : 01/23/20

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Total Weight/Volume : 30 ml

Completed : 02/11/20 Expires: 02/11/21

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Pesticides

PASSED

Pesticide	LOD	Units	Action Level	Pass/Fail	Result	Pesticide	LOD	Units	Action Level	Pass/Fail	Result
ABAMECTIN B1A	0.02	ppm	0.3		0	PHOSMET	0.01	ppm	0.2		0
ACEPHATE	0.001	ppm	3		0	PIPERONYL BUTOXIDE	0.01	ppm	3		0
ACEQUINOCYL	0.01	ppm	2		0	PRALLETHRIN	0.05	ppm	0.4		0
ACETAMIPRID	0.01	ppm	3		0	PROPICONAZOLE	0.01	ppm	1		0
ALDICARB	0.02	ppm	0.1		0	PROPOXUR	0.01	ppm	0.1		0
AZOXYSTROBIN	0.01	ppm	3		0	PYRETHRINS	0.01	ppm	1		0
BIFENAZATE	0.01	ppm	3		0	PYRIDABEN	0.01	ppm	3		0
BIFENTHRIN	0.01	ppm	0.5		0	SPINETORAM	0.01	PPM	3		0
BOSCALID	0.01	PPM	3		0	SPIROMESIFEN	0.01	ppm	3		0
CAPTAN	0.05	ppm	3		0	SPIROTETRAMAT	0.02	ppm	3		0
CARBARYL	0.01	ppm	0.5		0	SPIROXAMINE	0.01	ppm	0.1		0
CARBOFURAN	0.01	ppm	0.1		0	TEBUCONAZOLE	0.01	ppm	1		0
CHLORANTRANILIPROLE	0.01	ppm	3		0	THIACLOPRID	0.01	ppm	0.1		0
CHLORDANE	0.005	ppm	0.1		0	THIAMETHOXAM	0.01	ppm	1		0
CHLORFENAPYR	0.01	ppm	0.1		0	TOTAL CONTAMINANT LOAD (PESTICIDES)	0.1	PPM	20		0
CHLORPYRIFOS	0.01	ppm	0.1		0	TOTAL PERMETHRIN	1	ppm	1		0
CLOFENTEZINE	0.01	ppm	0.5		0	TOTAL SPINOSAD	1	ppm	3		0
COUMAPHOS	0.005	ppm	0.1		0	TRIFLOXYSTROBIN	0.01	ppm	3		0
CYPERMETHRIN	0.01	ppm	1		0						
DAMINOZIDE	0.02	ppm	0.1		0						
DIAZANON	0.01	ppm	0.2		0						
DICHLORVOS	0.05	ppm	0.1		0						
DIMETHOATE	0.01	ppm	0.1		0						
DIMETHOMORPH	0.005	ppm	3		0						
ETHOPROPHOS	0.01	ppm	0.1		0						
ETOFENPROX	0.01	ppm	0.1		0						
ETOXAZOLE	0.01	ppm	1.5		0						
FENHEXAMID	0.01	ppm	3		0						
FENOXYCARB	0.01	ppm	0.1		0						
FENPYROXIMATE	0.01	ppm	2		0						
FIPRONIL	0.02	ppm	0.1		0						
FLONICAMID	0.01	ppm	2		0						
FLUDIOXONIL	0.01	ppm	3		0						
HEXYTHIAZOX	0.01	ppm	2		0						
IMAZALIL	0.01	ppm	0.1		0						
IMIDACLOPRID	0.01	ppm	3		0						
KRESOXIM-METHYL	0.01	ppm	1		0						
MALATHION	0.01	ppm	2		0						
METALAXYL	0.01	ppm	3		0						
METHIOCARB	0.01	ppm	0.1		0						
METHOMYL	0.01	ppm	0.1		0						
MEVINPHOS	0.01	ppm	0.1		0						
MYCLOBUTANIL	0.01	ppm	3		0						
NALED	0.01	ppm	0.5		0						
OXAMYL	0.01	ppm	0.5		0						
PACLOBUTRAZOL	0.01	ppm	0.1		0						



Pesticides

PASSED

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 -
Instrument Used : DA-LCMS-001_DER **Reviewed On :**
Running on : **Batch Date** : 01/28/20 09:50:08

Analyzed by: 585	Weight: 1.0280g	Extraction date: 01/29/20 04:01:21	Extracted by: 585
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Dilution : 10
Reagent : 012420.R08; 012420.R09
Consumables : 180711

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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Sample Method : SOP Client Method

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Residual Solvents

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Solvents	LOD	Units	Action Level	Pass/Fail	Result
BUTANES (N-BUTANE)	96	ppm	5000		0
CHLOROFORM	0.18	ppm	2		0
1,2-DICHLOROETHANE	0.18	ppm	2		0
1,1-DICHLOROETHENE	1	ppm	8		0
DICHLOROMETHANE	3.75	ppm	125		0
ETHANOL	90	ppm	1000000		0
ETHYL ACETATE	36	ppm	400		14.6617
ETHYL ETHER	45	ppm	500		0
ETHYLENE OXIDE	0.6	ppm	5		0
HEPTANE	45	ppm	5000		0
METHANOL	22.5	ppm	250		12.5321
N-HEXANE	4.5	ppm	250		3.9248
PENTANES (N-PENTANE)	67.5	ppm	750		0
ACETONE	67.5	ppm	750		29.4531
PROPANE	120	ppm	5000		0
ACETONITRILE	5.4	ppm	60		2.2225
TOLUENE	13.5	ppm	150		3.5942
BENZENE	0.09	ppm	1		0
TOTAL XYLENES	13.5	ppm	150		0
2-PROPANOL	45	ppm	500		13.1565
TRICHLOROETHYLENE	2.25	ppm	25		0



Solvents

PASSED

Analyzed by	Weight	Extraction date	Extracted By
850	0.0266g	01/28/20 12:01:48	584

Analysis Method -SOP.T.40.041.FL
Analytical Batch -DA009791SOL
Instrument Used : Headspace GCMS
Running On :
Batch Date : 01/28/20 12:12:06

Dilution : 1

Reagent :

Consumables : 00276446; 161040-1; 24152436

Residual solvents analysis is performed utilizing Gas Chromatography Mass Spectrometry in accordance with with F.S. Rule 64ER20-39.



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 Microbial PASSED						 Mycotoxins PASSED					
Analyte	LOD	Units	Result	Pass / Fail	Action Level	Analyte	LOD	Units	Result	Pass / Fail	Action Level
ASPERGILLUS FLAVUS	10000	RFU	0		10000	AFLATOXIN G2	0.002	ppm	0		0.02
ASPERGILLUS FUMIGATUS	10000	RFU	267		10000	AFLATOXIN G1	0.002	ppm	0		0.02
ASPERGILLUS NIGER	10000	RFU	0		10000	AFLATOXIN B2	0.002	ppm	0		0.02
ASPERGILLUS TERREUS	10000	RFU	209		10000	AFLATOXIN B1	0.002	ppm	0		0.02
ESCHERICHIA COLI SHIGELLA SPP	10000	RFU	0		10000	OCHRATOXIN A+	0.002	ppm	0		0.02
SALMONELLA SPECIFIC GENE	10000	RFU	0		10000						

<p>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 - Instrument Used : PathogenDX PCR_Array Scanner Running on :</p>	<p>Reviewed On : Batch Date : 01/28/20 08:46:10</p>
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Analyzed by : NA	Weight : NA	Extraction date : NA	Extracted by : NA
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
Dilution :	Reagent : 012420.R10	Consumables : 2802012; 2803024; A03; 010A; 021; 2805022; 19193; 23819111; 012
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<p>Analysis Method -SOP.T.30.101.FL, SOP.T.40.101.FL, SOP.T.30.102.FL, SOP.T.40.102.FL Analytical Batch -DA009781 Instrument Used : DA-LCMS-001_DER Running On : Batch Date : 01/28/20 09:51:14</p>

Analyzed by : 585	Weight : 1g	Extraction date : NA	Extracted By : NA
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Mycotoxins testing utilizing Liquid Chromatography with Triple-Quadrupole Mass Spectrometry in accordance with F.S. Rule 64ER20-39.

Microbial testing is performed utilizing various technologies including: PCR, RTPCR, MPN, and traditional culture based techniques in accordance with F.S. Rule 64ER20-39..

 Heavy Metals PASSED					
Metal	LOD	Units	Result	Pass / Fail	Action Level
ARSENIC	0.01	PPM	0		1.5
CADMIUM	0.01	PPM	0		0.5
LEAD	0.01	PPM	0.0025		0.5
MERCURY	0.01	PPM	0.0034		3

Analyzed by : 53	Weight : 0.2539g	Extraction date : NA	Extracted By : NA
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<p>Analysis Method -SOP.T.30.081.FL, SOP.T.30.082.FL, SOP.T.40.081.FL, SOP.T.40.082.FL Analytical Batch -DA009769HEA Instrument Used : ICPMS-2030 Running On : Batch Date : 01/28/20 08:36:28</p>

Dilution : 50
Reagent : 012420.R17; 012720.R18; 011620.R12; 011420.R03; 011520.R01; 012420.R01; 010220.R04; 012420.R13
Consumables :

Heavy Metals analysis is performed using Inductively Coupled Plasma Mass Spectrometry in accordance with F.S. Rule 64ER20-39.