


Batch WIP-00090

Sample ID: 1910ELB0668.2113
Strain: N/A
Matrix: Ingestible
Type: Tincture
Sample Size: 1 units; Batch:

Created: 10/02/2019
Collected: 10/02/2019
Received: 10/02/2019
Completed: 10/08/2019
Batch#:

Client
Palmetto Synergistic Research
Lic. #
8856 Pee Dee Hwy.
Conway, SC 29527

Cultivator/Manufacturer

	0.024%	2.441%	2.558%
	Total THC	Total CBD	Total Cannabinoids
Not Tested NT	NT	Not Tested	
Water Activity	Moisture	Foreign Matter	

Safety

Batch Status: Pass

Pass Pesticides	Pass Microbials	Pass Mycotoxins	Pass Solvents	Pass Metals	Not Tested Foreign Matter
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Cannabinoids

Complete

Analyte	LOD	LOQ	Mass	Mass	Mass	Mass	Mass
	%	%	%	mg/g	mg/mL	mg/serving	mg/container
THCa	0.0015	0.0037	ND	ND	ND	ND	ND
Δ9-THC	0.0010	0.0037	0.0240	0.240	0.229	0.000	0.000
Δ8-THC	0.0014	0.0037	ND	ND	ND	ND	ND
THCVa	0.0000	0.0037	NR	NR	NR	NR	NR
THCV	0.0000	0.0037	NR	NR	NR	NR	NR
CBDA	0.0009	0.0037	ND	ND	ND	ND	ND
CBD	0.0011	0.0037	2.4414	24.414	23.272	0.000	0.000
CBDV	0.0010	0.0037	0.0090	0.090	0.086	0.000	0.000
CBN	0.0014	0.0037	0.0053	0.053	0.050	0.000	0.000
CBGa	0.0018	0.0037	ND	ND	ND	ND	ND
CBG	0.0016	0.0037	0.0268	0.268	0.255	0.000	0.000
CBC	0.0013	0.0037	0.0519	0.519	0.494	0.000	0.000
Total THC			0.0240	0.240	0.229	0.000	0.000
Total CBD			2.4414	24.414	23.272	0.000	0.000
Total			2.5584	25.584	24.387	0.000	0

Equipment Used: NT = Not tested; all LQC samples were performed and met the prescribed acceptance criteria in 16 CCR section 5730, pursuant to 16 CCR section 5726(e)(13). Analytical Instrumentation: Shimadzu MOC63U; EVIO SOPT.40.010

Foreign Matter

Date Tested:
Equipment Used: Analytical Instrumentation: Stereo Microscope SH-2B/T; EVIO SOPT.40.013

Water Activity

Date Tested:
Equipment Used: NT = Not tested; all LQC samples were performed and met the prescribed acceptance criteria in 16 CCR section 5730, pursuant to 16 CCR section 5726(e)(13). Analytical Instrumentation: Rotronic HC2-AW; EVIO SOPT.40.011.CA

1 Unit = 1 mL = 0.9532g

Potency Date Tested: 09/30/2019

Total CBD = (CBDA x 0.877) + CBD, Total THC = (THCa x 0.877) + Δ9-THC

LOD = Limit of Detection; LOQ = Limit of Quantitation; ND = Not Detected; Cured plant material reported as moisture-corrected % dry weight, other sample types reported 'as is'; All LQC samples were performed and met the prescribed acceptance criteria in 16 CCR section 5730, pursuant to 16 CCR section 5726(e)(13). Analytical Instrumentation: Shimadzu Nexera HPLC. EVIO SOPT.30.050.CA, SOPT.40.023.CA




David Egerton
Lab Director
10/08/2019

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Terpenes

Analyte	LOD %	LOQ %	Mass %	Mass mg/g
α-Humulene		0.08	ND	ND
α-Pinene		0.08	ND	ND
α-Terpinene		0.08	ND	ND
β-Caryophyllene		0.08	ND	ND
β-Myrcene		0.08	ND	ND
Camphene		0.08	ND	ND
Caryophyllene Oxide		0.08	ND	ND
δ-3-Carene		0.08	ND	ND
δ-Limonene		0.08	ND	ND
Eucalyptol		0.08	ND	ND
γ-Terpinene		0.08	ND	ND
Geraniol		0.08	ND	ND
Linalool		0.08	ND	ND
Nerolidol		0.08	ND	ND
Ocimene		0.08	ND	ND
(-) -β-Pinene		0.08	ND	ND
(-) -α-Bisabolol		0.08	ND	ND
(-) -Guaïol		0.08	ND	ND
(-) -Isopulegol		0.08	ND	ND
p-Cymene		0.08	ND	ND
Terpinolene		0.08	ND	ND
Total			0.00	0

Date Tested: 10/04/2019

Analytical Instrumentation: Agilent 7890B/MSD5977A GC/MS/FID EID: 0303 EVIO SOPT.40.091, SOPT.30.050.CA




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Pesticides

Pass

Analyte	LOD	LOQ	Limit	Mass	Status	Analyte	LOD	LOQ	Limit	Mass	Status
	µg/g	µg/g	µg/g	µg/g			µg/g	µg/g	µg/g	µg/g	
Abamectin	0.024	0.08	0.3	ND	Pass	Fludioxonil	0.014	0.075	30	ND	Pass
Acephate	0.004	0.075	5	ND	Pass	Hexythiazox	0.003	0.075	2	ND	Pass
Acequinocyl	0.018	0.075	4	ND	Pass	Imazalil	0.01	0.075	0.01	ND	Pass
Acetamiprid	0.007	0.075	0.5	ND	Pass	Imidacloprid	0.01	0.075	3	ND	Pass
Aldicarb	0.015	0.075	0.015	ND	Pass	Kresoxim Methyl	0.008	0.075	1	ND	Pass
Azoxystrobin	0.007	0.075	40	ND	Pass	Malathion	0.005	0.075	5	ND	Pass
Bifenazate	0.006	0.075	5	ND	Pass	Metalaxyl	0.006	0.075	15	ND	Pass
Bifenthrin	0.008	0.075	0.5	ND	Pass	Methiocarb	0.008	0.075	0.008	ND	Pass
Boscalid	0.009	0.075	10	ND	Pass	Methomyl	0.008	0.075	0.1	ND	Pass
Captan	0.035	0.116	5	ND	Pass	Methyl Parathion	0.016	0.075	0.016	ND	Pass
Carbaryl	0.008	0.075	0.5	ND	Pass	Mevinphos	0.01	0.075	0.01	ND	Pass
Carbofuran	0.004	0.075	0.004	ND	Pass	Myclobutanil	0.008	0.075	9	ND	Pass
Chlorantraniliprole	0.013	0.075	40	ND	Pass	Naled	0.009	0.075	0.5	ND	Pass
Chlordane	0.003	0.075	0.003	ND	Pass	Oxamyl	0.005	0.075	0.2	ND	Pass
Chlorfenapyr	0.008	0.075	0.008	ND	Pass	Pacllobutrazol	0.006	0.075	0.006	ND	Pass
Chlorpyrifos	0.003	0.075	0.003	ND	Pass	Pentachloronitrobenzene	0.015	0.075	0.2	ND	Pass
Clofentezine	0.004	0.075	0.5	ND	Pass	Permethrin	0.01	0.075	20	ND	Pass
Coumaphos	0.004	0.075	0.004	ND	Pass	Phosmet	0.008	0.075	0.2	ND	Pass
Cyfluthrin	0.064	0.21	1	ND	Pass	Piperonyl Butoxide	0.003	0.075	8	ND	Pass
Cypermethrin	0.012	0.075	1	ND	Pass	Prallethrin	0.009	0.075	0.4	ND	Pass
Daminozide	0.007	0.075	0.007	ND	Pass	Propiconazole	0.009	0.075	20	ND	Pass
Diazinon	0.005	0.075	0.2	ND	Pass	Propoxur	0.008	0.075	0.008	ND	Pass
Dichlorvos	0.005	0.075	0.005	ND	Pass	Pyrethrins	0.008	0.075	1	ND	Pass
Dimethoate	0.007	0.075	0.007	ND	Pass	Pyridaben	0.005	0.075	3	ND	Pass
Dimethomorph	0.007	0.075	20	ND	Pass	Spinetoram	0.006	0.075	3	ND	Pass
Ethoprophos	0.005	0.075	0.005	ND	Pass	Spinosad	0.004	0.075	3	ND	Pass
Etofenprox	0.005	0.075	0.005	ND	Pass	Spiromesifen	0.008	0.075	12	ND	Pass
Etoazole	0.004	0.075	1.5	ND	Pass	Spirotetramat	0.01	0.075	13	ND	Pass
Fenhexamid	0.005	0.075	10	ND	Pass	Spiroxamine	0.003	0.075	0.003	ND	Pass
Fenoxycarb	0.007	0.075	0.007	ND	Pass	Tebuconazole	0.008	0.075	2	ND	Pass
Fenpyroximate	0.004	0.075	2	ND	Pass	Thiacloprid	0.008	0.075	0.008	ND	Pass
Fipronil	0.01	0.075	0.01	ND	Pass	Thiamethoxam	0.007	0.075	4.5	ND	Pass
Fonicamid	0.007	0.075	2	ND	Pass	Trifloxystrobin	0.005	0.075	30	ND	Pass

Date Tested: 10/02/2019

LOD = Limit of Detection; LOQ = Limit of Quantitation; ND - Not Detected; The reported result is based on as-is sample mass, e.g., wet-weight; all LQC samples were performed and met the prescribed acceptance criteria in 16 CCR section 5730, pursuant to 16 CCR section 5726(e)(13). Analytical Instrumentation: Perkin Elmer QSight 420 LC-MS/MS; SOP.T.40.05.1.CA




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Residual Solvents

Analyte	LOD	LOQ	Limit	Concentration	Status
	µg/g	µg/g	µg/g	µg/g	
1,2-Dichloro-Ethane	0.08	0.25	1	ND	Pass
Benzene	0.03	0.12	1	ND	Pass
Chloroform	0.11	0.37	1	ND	Pass
Ethylene Oxide	0.12	0.41	1	ND	Pass
Methylene-Chloride	0.66	0.75	1	ND	Pass
Trichloroethene	0.4	0.4	1	ND	Pass
Acetone	5.46	36	5000	ND	Pass
Acetonitrile	0.41	1.37	410	ND	Pass
Butane	41.96	230.4	5000	ND	Pass
Ethanol	6.39	48		ND	Tested
Ethyl-Acetate	2.61	19.2	5000	ND	Pass
Ethyl-Ether	3.19	10.51	5000	ND	Pass
Heptane	2.99	24	5000	ND	Pass
Hexanes	0.31	1.03	290	ND	Pass
Isopropanol	3.3	24	5000	ND	Pass
Methanol	2.76	9.12	3000	ND	Pass
Pentane	6.29	36	5000	ND	Pass
Propane	7.93	26.16	5000	ND	Pass
Toluene	0.98	3.24	890	ND	Pass
Xylenes	1.04	1.04	2170	ND	Pass

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Date Tested: 10/02/2019

LOD=Limit of Detection; LOQ = Limit of Quantitation; ND = Not Detected; The reported result is based on nominal sample weight, and reported 'as is'; all LQC samples were performed and met the prescribed acceptance criteria in 16 CCR section 5730, pursuant to 16 CCR section 5726(e)(13). Analytical Instrumentation: Shimadzu QP2020 GCMS; EVIO SOPT.40.031.CA




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Microbials

Pass

Analyte

Result

Aspergillus	None Detected in 1g
Aspergillus flavus	None Detected in 1g
Aspergillus fumigatus	None Detected in 1g
Aspergillus niger	None Detected in 1g
Aspergillus terreus	None Detected in 1g
Shiga toxin-producing E. Coli	None Detected in 1g
Salmonella SPP	None Detected in 1g

Date Tested: 10/03/2019

NT = Not tested; all LQC samples were performed and met the prescribed acceptance criteria in 16 CCR section 5730, pursuant to 16 CCR section 5726(e)(13). Analytical Instrumentation: BIO-RAD QPCR CFX96; EVIO SOPT.40.043

Mycotoxins

Pass

Analyte	LOD	LOQ	Limit	Units	Status
	µg/kg	µg/kg	µg/kg	µg/kg	
Total Aflatoxins	4.4	14.6	20	ND	Pass
Ochratoxin A	4.5	14.8	20	ND	Pass

Date Tested: 10/02/2019

LOD = Limit of Detection; LOQ = Limit of Quantitation; ND = Not Detected; The reported result is based on a sample weight with the applicable moisture content for that sample; all LQC samples were performed and met the prescribed acceptance criteria in 16 CCR section 5730, pursuant to 16 CCR section 5726(e)(13). Analytical Instrumentation: Perkin Elmer QSight 420 LC-MS/MS; SOPT.40.051.CA

Heavy Metals

Pass

Analyte	LOD	LOQ	Limit	Units	Status
	µg/g	µg/g	µg/g	µg/g	
Arsenic	0.029	0.088	1.5	ND	Pass
Cadmium	0.02	0.059	0.5	ND	Pass
Lead	0.016	0.047	0.5	ND	Pass
Mercury	0.023	0.07	3	ND	Pass

Date Tested: 10/08/2019

LOD = Limit of Detection; LOQ = Limit of Quantitation; ND = Not Detected; The reported result is based on sample weight, and reported 'as is'; all LQC samples were performed and met the prescribed acceptance criteria in 16 CCR section 5730, pursuant to 16 CCR section 5726(e)(13). Analytical Instrumentation: Shimadzu ICP/MS. EVIO SOPT.30.070.CA, SOPT.40.060.CA




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