



Certificate of Analysis

Compliance Test

Client Information:

Batch #
Batch Date:
Extracted From: Industrial Hemp

Test Reg State: Florida

Production Facility:
Production Date:

Order Date:
Sample #

Sampling Date: 2023-06-14
Lab Batch Date: 2023-06-14
Completion Date: 2023-06-19
Initial Gross Weight: 25.969 g



Product Image



**Potency
Tested**



**Heavy Metals
Passed**



**Mycotoxins
Passed**



**Pesticides
Passed**



**Residual Solvents
Passed**



**Pathogenic Microbiology
Passed**



**Microbiology Petrifilm
Passed**

Potency 25 + CBE

Specimen Weight: 50.230 mg

Tested

SOP13.002 (LCUV)

Analyte	LOD (%)	LOQ (%)	Result (mg/g)	(%)
CBD	5.40E-5	0.0015	882.9720	88.2972
CBC	1.80E-5	0.0015	43.1780	4.3178
Delta-9 THC	1.30E-5	0.0015	25.1010	2.5101
CBG	2.48E-4	0.0015	14.8360	1.4836
CBT	2.00E-4	0.0015	9.3540	0.9354
CBE	4.83E-5	0.002	8.0990	0.8099
CBNA	9.50E-5	0.0015	6.8700	0.6870
CBDV	6.50E-5	0.0015	4.4900	0.4490
CBN	1.40E-5	0.0015	2.3120	0.2312
CBL	3.50E-5	0.0015	1.7550	0.1755
THCH *	3.50E-4	0.00195	0.5090	0.0509
THCV	7.00E-6	0.0015	0.4240	0.0424
CBCA	1.07E-4	0.0015	<LOQ	<LOQ
CBDA	1.00E-5	0.0015	<LOQ	<LOQ
CBDVA	1.40E-5	0.0015	<LOQ	<LOQ
CBGA	8.00E-5	0.0015	<LOQ	<LOQ
Delta-8 THC	2.60E-5	0.0015	<LOQ	<LOQ
Delta-8 THC-O Acetate	2.70E-5	0.003	<LOQ	<LOQ
Delta-8 THCV	4.00E-5	0.0015	<LOQ	<LOQ
Delta-9 THC-O Acetate	7.70E-5	0.003	<LOQ	<LOQ
Delta8-THCP *	3.75E-4	0.0015	<LOQ	<LOQ
Delta9-THCP *	1.17E-5	0.0012	<LOQ	<LOQ
Exo-THC	2.30E-4	0.0015	<LOQ	<LOQ
THCA-A	3.20E-5	0.0015	<LOQ	<LOQ
THCB *	1.80E-4	0.00195	<LOQ	<LOQ
THCVA	4.70E-5	0.0015	<LOQ	<LOQ
Total Active CBD			882.972	88.297
Total Active THC			25.101	2.510



Potency Summary

Total Active THC
2.510%

Total Active CBD
88.297%

Total CBG
1.484%

Total CBN
0.834%

Other Cannabinoids
6.675%

Total Cannabinoids
99.799%

Axia Sun
Axia Sun Lab Director/Principal Scientist
D.H.Sc., M.Sc., B.Sc., MT (AAB)



Definitions and Abbreviations used in this report: Total Active CBD = CBD + (CBD-A * 0.877), *Total CBDV = CBDV + (CBDVA * 0.87), Total Active THC = THCA-A * 0.877 + Delta 9 THC, Total THCV = THCV + (THCVA * 0.87), CBG Total = (CBGA * 0.877) + CBG, CBN Total = (CBNA * 0.877) + CBN, Total CBC = CBC + (CBCA * 0.877), Total THC-O-Acetate = Delta 8 THC-O-Acetate + Delta 9 THC-O-Acetate, Total THCP = Delta8-THCP + Delta9-THCP, Other Cannabinoids Total = Total Cannabinoids - All the listed cannabinoids on the summary section, Total Detected Cannabinoids = Delta8a10a-THC + Delta8-THC + Total CBN + CBT + CBE + Delta8-THCV + Total CBG + Total CBD + Total THCV + CBL + Total THC + Total CBC + Total CBDV + Delta10-THC + Total THC-O-Acetate + Total THCP. (mg/ml) = Milligrams per Milliliter, LOQ = Limit of Quantitation, LOD = Limit of Detection, Dilution = Dilution Factor (ppb) = Parts per Billion, (%) = Percent, (cfu/g) = Colony Forming Unit per Gram (cfu/g) = Colony Forming Unit per Gram, LOD = Limit of Detection, (µg/g) = Microgram per Gram (ppm) = Parts per Million, (ppm) = (µg/g), (aw) = Water Activity, (mg/Kg) = Milligram per Kilogram, ACS uses simple acceptance criteria. Passed - Analyte/microbe is not detected or is at the level below the action limit per FL rule 64ER20-39, 5K 4.036, 5K 4.034. Failed - Analyte/microbe is at the level that equal or above the action limit per FL rule 64ER20-39, 5K 4.036, 5K 4.034 Sample not received via laboratory sampling.

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Initial Gross Weight: 25.969 g

Pathogenic Microbiology - SE (MicroArray)

Specimen Weight: 1039.600 mg

Dilution Factor: 1.000

Analyte	Result (cfu/g)	Analyte	Result (cfu/g)
Salmonella	Absence in 1g	STEC E. Coli	Absence in 1g

Passed

SOP13.019 (Micro Array)



Microbiology (Petrifilm)

Specimen Weight: 1004.900 mg

Dilution Factor: 1.000

Analyte	LOQ (cfu/g)	Action Level (cfu/g)	Result (cfu/g)	Analyte	LOQ (cfu/g)	Action Level (cfu/g)	Result (cfu/g)
Aerobic Bacteria	10	1000	<10	Yeast/Mold	10	100	<10

Passed

SOP13.003 (Petrifilm)

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D.H.Sc., M.Sc., B.Sc., MT (AAB)

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Heavy Metals

Specimen Weight: 246.750 mg

Passed
SOP13.048 (ICP-MS)

Dilution Factor: 202

Analyte	LOD (ppb)	LOQ (ppb)	Action Level (ppb)	Result (ppb)	Analyte	LOD (ppb)	LOQ (ppb)	Action Level (ppb)	Result (ppb)
Arsenic (As)	4.83	100	1500	<LOQ	Lead (Pb)	11.76	100	500	<LOQ
Cadmium (Cd)	.64	100	500	<LOQ	Mercury (Hg)	.58	100	3000	<LOQ



Mycotoxins

Specimen Weight: 589.700 mg

Passed
SOP13.007 (LCMS)

Dilution Factor: 2.540

Analyte	LOD (ppb)	LOQ (ppb)	Action Level (ppb)	Result (ppb)	Analyte	LOD (ppb)	LOQ (ppb)	Action Level (ppb)	Result (ppb)
Aflatoxin B1	3.0400E-1	6	20	<LOQ	Aflatoxin G2	2.7100E-1	6	20	<LOQ
Aflatoxin B2	7.7000E-2	6	20	<LOQ	Ochratoxin A	7.5400E-1	3.8	20	<LOQ
Aflatoxin G1	3.0400E-1	6	20	<LOQ					



Residual Solvents - FL (CBD)

Specimen Weight: 306.400 mg

Passed
SOP13.039 (GCMS)

Dilution Factor: 500.000

Analyte	LOD (ppm)	LOQ (ppm)	Action Level (ppm)	Result (ppm)	Analyte	LOD (ppm)	LOQ (ppm)	Action Level (ppm)	Result (ppm)
1,1-Dichloroethene	0.0094	0.16	8	ND	Heptane	0.0013	1.39	5000	ND
1,2-Dichloroethane	0.0003	0.04	5	ND	Hexane	0.068	1.17	290	ND
Acetone	0.015	2.08	5000	ND	Isopropyl alcohol	0.0048	1.39	500	ND
Acetonitrile	0.06	1.17	410	ND	Methanol	0.0005	0.69	3000	ND
Benzene	0.0002	0.02	2	ND	Methylene chloride	0.0029	2.43	600	ND
Butanes	0.4167	2.5	2000	ND	Pentane	0.037	2.08	5000	ND
Chloroform	0.0001	0.04	60	ND	Propane	0.031	5.83	2100	ND
Ethanol	0.0021	2.78	5000	ND	Toluene	0.0009	2.92	890	ND
Ethyl Acetate	0.0012	1.11	5000	ND	Total Xylenes	0.0001	2.92	2170	ND
Ethyl Ether	0.0049	1.39	5000	ND	Trichloroethylene	0.0014	0.49	80	ND
Ethylene Oxide	0.0038	0.1	5	ND					

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Pesticides

Specimen Weight: 589.700 mg

Passed
SOP13.007 (LCMS/GCMS)

Dilution Factor: 2.540

Analyte	LOD (ppb)	LOQ (ppb)	Action Level (ppb)	Result (ppb)	Analyte	LOD (ppb)	LOQ (ppb)	Action Level (ppb)	Result (ppb)
Abamectin	2.8800E-1	28.23	300	<LOQ	Fludioxonil	1.7400E+0	48	3000	<LOQ
Acephate	2.3000E-2	30	3000	<LOQ	Hexythiazox	4.9000E-2	30	2000	<LOQ
Acequinocyl	9.5640E+0	48	2000	<LOQ	Imazalil	2.4800E-1	30	100	<LOQ
Acetamiprid	5.2000E-2	30	3000	<LOQ	Imidacloprid	9.4000E-2	30	3000	<LOQ
Aldicarb	2.6000E-2	30	100	<LOQ	Kresoxim Methyl	4.2000E-2	30	1000	<LOQ
Azoxystrobin	8.1000E-2	10	3000	<LOQ	Malathion	8.2000E-2	30	2000	<LOQ
Bifenazate	1.4150E+0	30	3000	<LOQ	Metalaxyl	8.1000E-2	10	3000	<LOQ
Bifenthrin	4.3000E-2	30	500	<LOQ	Methiocarb	3.2000E-2	30	100	<LOQ
Boscalid	5.5000E-2	10	3000	<LOQ	Methomyl	2.2000E-2	30	100	<LOQ
Captan	6.1200E+0	30	3000	<LOQ	methyl-Parathion	1.7100E+0	10	100	<LOQ
Carbaryl	2.2000E-2	10	500	<LOQ	Mevinphos	2.1500E+0	10	100	<LOQ
Carbofuran	3.4000E-2	10	100	<LOQ	Myclobutanil	1.0290E+0	30	3000	<LOQ
Chlorantraniliprole	3.3000E-2	10	3000	<LOQ	Naled	9.5000E-2	30	500	<LOQ
Chlordane	1.0000E+1	10	100	<LOQ	Oxamyl	2.5000E-2	30	500	<LOQ
Chlorfenapyr	3.4000E-2	30	100	<LOQ	Paclobutrazol	6.5000E-2	30	100	<LOQ
Chlomequat Chloride	1.0800E-1	10	3000	<LOQ	Pentachloronitrobenzene	1.3200E+0	10	200	<LOQ
Chlorpyrifos	3.5000E-2	30	100	<LOQ	Pemethrin	3.4300E-1	30	1000	<LOQ
Clofentezine	1.1900E-1	30	500	<LOQ	Phosmet	8.2000E-2	30	200	<LOQ
Coumaphos	3.7700E+0	48	100	<LOQ	Piperonylbutoxide	2.9000E-2	30	3000	<LOQ
Cyfluthrin	3.1100E+0	30	1000	<LOQ	Prallethrin	7.9800E-1	30	400	<LOQ
Cypermethrin	1.4490E+0	30	1000	<LOQ	Propiconazole	7.0000E-2	30	1000	<LOQ
Daminozide	8.8500E-1	30	100	<LOQ	Propoxur	4.6000E-2	30	100	<LOQ
Diazinon	4.4000E-2	30	200	<LOQ	Pyrethrins	2.3593E+1	30	1000	<LOQ
Dichlorvos	2.1820E+0	30	100	<LOQ	Pyridaben	3.2000E-2	30	3000	<LOQ
Dimethoate	2.1000E-2	30	100	<LOQ	Spinetoram	8.0000E-2	10	3000	<LOQ
Dimethomorph	5.8300E+0	48	3000	<LOQ	Spinosad	8.8000E-2	30	3000	<LOQ
Ethoprophos	3.6000E-1	30	100	<LOQ	Spiromesifen	2.6100E-1	30	3000	<LOQ
Etofenprox	1.1600E-1	30	100	<LOQ	Spirotetramat	8.9000E-2	30	3000	<LOQ
Etoxazole	9.5000E-2	30	1500	<LOQ	Spiroxamine	1.3100E-1	30	100	<LOQ
Fenhexamid	5.1000E-1	10	3000	<LOQ	Tebuconazole	6.7000E-2	30	1000	<LOQ
Fenoxycarb	1.0700E-1	30	100	<LOQ	Thiacloprid	6.4000E-2	30	100	<LOQ
Fenpyroximate	1.3800E-1	30	2000	<LOQ	Thiamethoxam	5.0000E-2	30	1000	<LOQ
Fipronil	1.0700E-1	30	100	<LOQ	Trifloxystrobin	3.7000E-2	30	3000	<LOQ
Fonicamid	5.1700E-1	30	2000	<LOQ					

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