



Certificate of Analysis

Compliance Test

Client Information:

Hectare's
819 E. Market St., Ste 101
Louisville, KY 40206

Batch # HE006
Batch Date: 2024-10-10
Extracted From: Hemp

Test Reg State: Florida

Order # HEC241016-030001
Order Date: 2024-10-16
Sample # AAGA962

Sampling Date: 2024-10-21
Lab Batch Date: 2024-10-21
Completion Date: 2024-10-29

Volume: 355 ml



Product Image



**Potency
Tested**



**Terpenes
Tested**



**Heavy Metals
Passed**



**Mycotoxins
Passed**



**Pesticides
Passed**



**Residual Solvents
Passed**



**Pathogenic Microbiology
Passed**



**Listeria Monocytogenes
Passed**



**Microbiology (qPCR)
Passed**

Potency 10 - (LCMS)

Specimen Weight: 357000.000 mg

Tested

SOP13.030 (LCMS)

Analyte	Dilution (1:n)	LOD (%)	LOQ (%)	Result (µg/ml)	(%)
CBD	8.000	3.37E-7	7.5E-5	16.030	0.001603
Delta-9 THC	8.000	2.98E-5	7.5E-5	14.780	0.001478
CBC	8.000	1.94E-6	7.5E-5	<LOQ	<LOQ
CBDA	8.000	7.78E-8	7.5E-5	<LOQ	<LOQ
CBDV	8.000	9.80E-8	7.5E-5	<LOQ	<LOQ
CBG	8.000	4.00E-7	7.5E-5	<LOQ	<LOQ
CBGA	8.000	4.71E-8	7.5E-5	<LOQ	<LOQ
CBN	8.000	1.25E-6	7.5E-5	<LOQ	<LOQ
THCA-A	8.000	1.51E-7	7.5E-5	<LOQ	<LOQ
THCV	8.000	1.24E-6	7.5E-5	<LOQ	<LOQ
Total Active CBD	8.000			0.016	0.001603
Total Active THC	8.000			0.015	0.001478



Potency Summary

Total Active THC 0.001478% 5.247mg	Total Active CBD 0.001603% 5.691mg
Total CBG - ND	Total CBN - ND
Total Cannabinoids 0.003081% 10.938mg	



Terpenes Summary

Analyte	Result (mg/g) (%)
Total Terpenes: 0.000%	

Detailed Terpenes Analysis is on the following page

Aixia Sun

Aixia 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 * 0.867), Total Active THC = THCA-A * 0.877 + Delta 9 THC, Total THCV = THCV + (THCVA * 0.87), CBG Total = (CBGA * 0.878) + CBG, CBN Total = (CBNA * 0.876) + 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, Total Cannabinoids = Total percentage of cannabinoids within the sample. (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, (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. Sample not received via laboratory sampling. 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.

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Terpenes

Specimen Weight: 451.000 mg

Tested
SOP13.045 (GC/GCMS)

Dilution Factor: 3.000

Analyte	LOQ (%)	Result (mg/g)	(%)	Analyte	LOQ (%)	Result (mg/g)	(%)
(+)-Cedrol	0.002		<LOQ	Fenchyl Alcohol	0.002		<LOQ
(R)-(+)-Limonene	0.002		<LOQ	Gamma-Terpinene	0.002		<LOQ
3-Carene	0.002		<LOQ	Geraniol	0.002		<LOQ
alpha-Bisabolol	0.002		<LOQ	Geranyl acetate	0.002		<LOQ
alpha-Cedrene	0.002		<LOQ	Guaiol	0.002		<LOQ
alpha-Humulene	0.002		<LOQ	Hexahydrothymol	0.002		<LOQ
alpha-Phellandrene	0.002		<LOQ	Isoborneol	0.002		<LOQ
alpha-Pinene	0.002		<LOQ	Isopulegol	0.002		<LOQ
alpha-Terpinene	0.002		<LOQ	Linalool	0.002		<LOQ
beta-Myrcene	0.002		<LOQ	Nerol	0.002		<LOQ
beta-Pinene	0.002		<LOQ	Ocimene	0.00033		<LOQ
Borneol	0.004		<LOQ	Pulegone	0.002		<LOQ
Camphene	0.002		<LOQ	Sabinene	0.002		<LOQ
Camphors	0.006		<LOQ	Sabinene Hydrate	0.002		<LOQ
Caryophyllene oxide	0.002		<LOQ	Terpinolene	0.002		<LOQ
cis-Nerolidol	0.002		<LOQ	Total Terpeneol	0.00126		<LOQ
Eucalyptol	0.002		<LOQ	trans-Caryophyllene	0.002		<LOQ
Farnesene	0.002		<LOQ	trans-Nerolidol	0.002		<LOQ
Fenchone	0.002		<LOQ	Valencene	0.002		<LOQ



Listeria Monocytogenes

Specimen Weight: 998.600 mg

Passed
SOP13.032 (qPCR)



Total Yeast and Mold

Specimen Weight: 480.500 mg

Passed
SOP13.017 (qPCR)

Dilution Factor: 1.000

Analyte	Result
Listeria Monocytogenes	Absence in 1g

Dilution Factor: 8.000

Analyte	Action Level (cfu/g)	LOQ (cfu/g)	Result (cfu/g)
Total Yeast/Mold	100000	1000	<LOQ
Prep. By: 1161	Date: 2024-10-22 11:00:06	Analyzed By: 1161	Date: 2024-10-22 11:00:06
Reviewed By: 1161	Date: 2024-10-22 16:49:50	Lab Batch #: AAGA962-434	Date: 2024-10-22 16:49:50

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

Definitions are found on page 1

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Volume: 355 ml



Pathogenic Microbiology SAE (MicroArray)

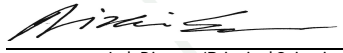
Specimen Weight: 1013.800 mg

Passed

SOP13.019 (Micro Array)

Dilution Factor: 1.000

Analyte	Result (cfu/g)	Analyte	Result (cfu/g)
Aspergillus flavus	Absence in 1g	Aspergillus terreus	Absence in 1g
Aspergillus fumigatus	Absence in 1g	Salmonella	Absence in 1g
Aspergillus niger	Absence in 1g	STEC E. Coli	Absence in 1g


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Heavy Metals

Specimen Weight: 250.800 mg

Passed
SOP13.048 (ICP-MS)

Dilution Factor: 199

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: 584.100 mg

Passed
SOP13.007 (LCMS)

Dilution Factor: 2.570

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/UT

Specimen Weight: 55.300 mg

Passed
SOP13.056,SOP13.039 (GCMS)

Dilution Factor: 1.000

Analyte	LOQ (ppm)	Action Level (ppm)	Result (ppm)	Analyte	LOQ (ppm)	Action Level (ppm)	Result (ppm)
1,1-Dichloroethene		0	<LOQ	Ethyl Acetate	1.11	5000	<LOQ
1,2 Dimethoxyethane	1.67	100	<LOQ	Ethyl Ether	1.39	5000	<LOQ
1,2-Dichloroethane	0.04	5	<LOQ	Ethylene glycol	1.67	620	<LOQ
1,4 Dioxane	1.67	380	<LOQ	Ethylene Oxide	0.1	5	<LOQ
1-Butanol	1.67	5000	<LOQ	Heptane	1.67	5000	<LOQ
1-Pentanol	1.67	5000	<LOQ	Hexane	1.17	290	<LOQ
1-Propanol	1.67	5000	<LOQ	Isopropyl acetate	1.67	5000	<LOQ
2,2-dimethylbutane	1.67	290	<LOQ	Isopropyl alcohol	1.67	5000	<LOQ
2,3-dimethylbutane	1.67	290	<LOQ	Isopropyl alcohol	1.67	500	<LOQ
2-Butanol	1.67	5000	<LOQ	Methanol	0.69	3000	<LOQ
2-Butanone	6.4	5000	<LOQ	Methylene chloride	1.67	600	<LOQ
2-Ethoxyethanol	1.67	160	<LOQ	Methylene chloride	2.43	600	<LOQ
2-methylbutane	1.67	5000	<LOQ	Methylpropane	1.67	5000	<LOQ
2-Methylpentane	1.67	290	<LOQ	N,N-dimethylacetamide	1.67	1090	<LOQ
3-Methylpentane	1.67	290	<LOQ	N,N-dimethylformamide	1.67	880	<LOQ
Acetone	1.67	5000	<LOQ	Pentane	1.67	5000	<LOQ
Acetonitrile	0.02	410	<LOQ	Propane	1.67	2100	<LOQ
Benzene	1.67	2	<LOQ	Pyridine	1.67	100	<LOQ
Butane	1.67	2000	<LOQ	Sulfolane	1.67	160	<LOQ
Chloroform	0.04	60	<LOQ	Tetrahydrofuran	1.67	720	<LOQ
Cumene	1.67	70	<LOQ	Toluene	1.67	890	<LOQ
Cyclohexane	1.67	3880	<LOQ	Total Xylenes	1.67	1000	<LOQ
Dimethyl sulfoxide	1.67	5000	<LOQ	Trichloroethylene	0.49	80	<LOQ
Ethanol	1.67	NA	1099.301				

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Pesticides

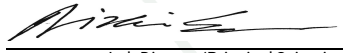
Specimen Weight: 584.100 mg

Passed

SOP13.007 (LCMS/GCMS)

Dilution Factor: 2.570

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
Chlormequat Chloride	1.0800E-1	10	3000	<LOQ	Pentachloronitrobenzene	1.3200E+0	10	200	<LOQ
Chlorpyrifos	3.5000E-2	30	100	<LOQ	Permethrin	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
Flonicamid	5.1700E-1	30	2000	<LOQ					


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