



**Certificate of Analysis**  
Compliance Test

Client Information:

**Hectares**  
819 E. Market St., Ste 101  
Louisville, KY 40206

Batch # BC020124  
Batch Date: 2024-01-26  
Extracted From: Hemp

Test Reg State: Florida

Order # HEC240426-010001  
Order Date: 2024-04-26  
Sample # AAFN534

Sampling Date: 2024-04-26  
Lab Batch Date: 2024-04-26  
Completion Date: 2024-04-30

Initial Gross Weight: 45.800 g



Product Image

<b>Terpenes</b> Tested	<b>Heavy Metals</b> Passed	<b>Mycotoxins</b> Passed	<b>Pesticides</b> Passed	<b>Pathogenic Microbiology</b> Passed
<b>Listeria Monocytogenes</b> Passed	<b>Microbiology (qPCR)</b> Passed			

**Terpenes**

Specimen Weight: 1545.500 mg

**Tested**  
SOP13.045 (GC/GCMS)

Dilution Factor: 20.000

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: 987.100 mg

**Passed**  
SOP13.032 (qPCR)

**Total Yeast and Mold**

Specimen Weight: 479.200 mg

**Passed**  
SOP13.017 (qPCR)

Dilution Factor: 1.000

Analyte	Action Level (cfu/g)	Result	Analyte	Action Level (cfu/g)	Result (cfu/g)	Remark
Listeria Monocytogenes	1	Absence in 1g	Total Yeast/Mold	100000	<LOQ	Passed

**Total Terpenes: 0.000%**

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 \* 0.87), Total Active THC = THCA-A \* 0.877 + Delta 9 THC, Total THC = 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 = Delta6a10a-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, (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. This report shall not be reproduced, without written approval, from ACS Laboratory. The results of this report relate only to the material or product analyzed. Test results are confidential unless explicitly waived otherwise. ACS Laboratory is accredited to the ISO/IEC 17025:2017 Standard.



**Certificate of Analysis**  
Compliance Test

Client Information:

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

Batch # BC020124  
Batch Date: 2024-01-26  
Extracted From: Hemp

Test Reg State: Florida

Order # HEC240426-010001  
Order Date: 2024-04-26  
Sample # AAFN534

Sampling Date: 2024-04-26  
Lab Batch Date: 2024-04-26  
Completion Date: 2024-04-30

Initial Gross Weight: 45.800 g

**Pathogenic Microbiology SAE (MicroArray)**


Specimen Weight: 1048.400 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

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

Definitions are found on page 1

This report shall not be reproduced, without written approval, from ACS Laboratory. The results of this report relate only to the material or product analyzed. Test results are confidential unless explicitly waived otherwise. ACS Laboratory is accredited to the ISO/IEC 17025:2017 Standard.





**Certificate of Analysis**  
Compliance Test

Client Information:

**Hectare's**

819 E. Market St., Ste 101  
Louisville, KY 40206

Batch # BC020124  
Batch Date: 2024-01-26  
Extracted From: Hemp

Test Reg State: Florida

Order # HEC240426-010001  
Order Date: 2024-04-26  
Sample # AAFN534

Sampling Date: 2024-04-26  
Lab Batch Date: 2024-04-26  
Completion Date: 2024-04-30

Initial Gross Weight: 45.800 g



**Heavy Metals**

Specimen Weight: 253.410 mg

**Passed**  
SOP13.048 (ICP-MS)

Dilution Factor: 197

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: 617.200 mg

**Passed**  
SOP13.007 (LCMS)

Dilution Factor: 2.430

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					

*Aixia Sun*

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

Definitions are found on page 1

This report shall not be reproduced, without written approval, from ACS Laboratory. The results of this report relate only to the material or product analyzed. Test results are confidential unless explicitly waived otherwise. ACS Laboratory is accredited to the ISO/IEC 17025:2017 Standard.





**Certificate of Analysis**  
Compliance Test

Client Information:

**Hectares**  
819 E. Market St., Ste 101  
Louisville, KY 40206

Batch # BC020124  
Batch Date: 2024-01-26  
Extracted From: Hemp

Test Reg State: Florida

Order # HEC240426-010001  
Order Date: 2024-04-26  
Sample # AAFN534

Sampling Date: 2024-04-26  
Lab Batch Date: 2024-04-26  
Completion Date: 2024-04-30

Initial Gross Weight: 45.800 g

**Pesticides**  
Specimen Weight: 617.200 mg

**Passed**  
SOP13.007 (LCMS/GCMS)

Dilution Factor: 2.430

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	Paclbutrazol	6.5000E-2	30	100	<LOQ
Chloromequat 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
Fonicamid	5.1700E-1	30	2000	<LOQ					

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

Definitions are found on page 1

This report shall not be reproduced, without written approval, from ACS Laboratory. The results of this report relate only to the material or product analyzed. Test results are confidential unless explicitly waived otherwise. ACS Laboratory is accredited to the ISO/IEC 17025:2017 Standard.

