



Certificate of Analysis
Compliance Test

Client Information:

Hectare's

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

Batch # HE005
Batch Date: 2024-10-09
Extracted From: Hemp

Test Reg State: Florida

Order # HEC241016-030001
Order Date: 2024-10-16
Sample # AAGA960

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	17.810	0.001781	<div style="width: 100%;"></div>
Delta-9 THC	8.000	2.98E-5	7.5E-5	15.530	0.001553	<div style="width: 100%;"></div>
CBC	8.000	1.94E-6	7.5E-5	<LOQ	<LOQ	<div style="width: 0%;"></div>
CBDA	8.000	7.78E-8	7.5E-5	<LOQ	<LOQ	<div style="width: 0%;"></div>
CBDV	8.000	9.80E-8	7.5E-5	<LOQ	<LOQ	<div style="width: 0%;"></div>
CBG	8.000	4.00E-7	7.5E-5	<LOQ	<LOQ	<div style="width: 0%;"></div>
CBGA	8.000	4.71E-8	7.5E-5	<LOQ	<LOQ	<div style="width: 0%;"></div>
CBN	8.000	1.25E-6	7.5E-5	<LOQ	<LOQ	<div style="width: 0%;"></div>
THCA-A	8.000	1.51E-7	7.5E-5	<LOQ	<LOQ	<div style="width: 0%;"></div>
THCV	8.000	1.24E-6	7.5E-5	<LOQ	<LOQ	<div style="width: 0%;"></div>
Total Active CBD	8.000			0.018	0.001781	<div style="width: 100%;"></div>
Total Active THC	8.000			0.016	0.001553	<div style="width: 100%;"></div>

Potency Summary

Total Active THC 0.001553% 5.513mg	Total Active CBD 0.001781% 6.323mg
Total CBG - ND	Total CBN - ND
Total Cannabinoids 0.003334% 11.836mg	

Terpenes Summary

Analyte	Result (mg/g)	(%)	
(R)-(+)-Limonene	0.027	0.003%	<div style="width: 100%;"></div>

Total Terpenes: 0.003%

Detailed Terpenes Analysis is on the following page

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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 THC = 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. 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.



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Order # HEC241016-030001
Order Date: 2024-10-16
Sample # AAGA960

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

Volume: 355 ml



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)	(%)
(R)-(+)-Limonene	0.002	0.027	0.003	Fenchyl Alcohol	0.002	<LOQ	<LOQ
(+)-Cedrol	0.002	<LOQ	<LOQ	Gamma-Terpinene	0.002	<LOQ	<LOQ
3-Carene	0.002	<LOQ	<LOQ	Geraniol	0.002	<LOQ	<LOQ
alpha-Bisabolol	0.002	<LOQ	<LOQ	Geranyl acetate	0.002	<LOQ	<LOQ
alpha-Cedrene	0.002	<LOQ	<LOQ	Guaiol	0.002	<LOQ	<LOQ
alpha-Humulene	0.002	<LOQ	<LOQ	Hexahydrothymol	0.002	<LOQ	<LOQ
alpha-Phellandrene	0.002	<LOQ	<LOQ	Isoborneol	0.002	<LOQ	<LOQ
alpha-Pinene	0.002	<LOQ	<LOQ	Isopulegol	0.002	<LOQ	<LOQ
alpha-Terpinene	0.002	<LOQ	<LOQ	Linalool	0.002	<LOQ	<LOQ
beta-Myrcene	0.002	<LOQ	<LOQ	Nerol	0.002	<LOQ	<LOQ
beta-Pinene	0.002	<LOQ	<LOQ	Ocimene	0.00033	<LOQ	<LOQ
Borneol	0.004	<LOQ	<LOQ	Pulegone	0.002	<LOQ	<LOQ
Camphene	0.002	<LOQ	<LOQ	Sabinene	0.002	<LOQ	<LOQ
Camphors	0.006	<LOQ	<LOQ	Sabinene Hydrate	0.002	<LOQ	<LOQ
Caryophyllene oxide	0.002	<LOQ	<LOQ	Terpinolene	0.002	<LOQ	<LOQ
cis-Nerolidol	0.002	<LOQ	<LOQ	Total Terpeneol	0.00126	<LOQ	<LOQ
Eucalyptol	0.002	<LOQ	<LOQ	trans-Caryophyllene	0.002	<LOQ	<LOQ
Farnesene	0.002	<LOQ	<LOQ	trans-Nerolidol	0.002	<LOQ	<LOQ
Fenchone	0.002	<LOQ	<LOQ	Valencene	0.002	<LOQ	<LOQ



Listeria Monocytogenes

Specimen Weight: 981.300 mg

Passed

SOP13.032 (qPCR)



Total Yeast and Mold

Specimen Weight: 491.700 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 10:58:53	Analyzed By: 1161	Date: 2024-10-22 10:58:53
Reviewed By: 1161	Date: 2024-10-22 16:49:50	Lab Batch #: AAGA960-434	Date: 2024-10-22 16:49:50

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

Definitions are found on page 1

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Hectare's

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

Order # HEC241016-030001
Order Date: 2024-10-16
Sample # AAGA960

Batch # HE005
Batch Date: 2024-10-09
Extracted From: Hemp

Test Reg State: Florida

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

Volume: 355 ml

Pathogenic Microbiology SAE (MicroArray)

Specimen Weight: 1007.800 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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819 E. Market St., Ste 101 Batch Date: 2024-10-09
Louisville, KY 40206 Extracted From: Hemp
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Order Date: 2024-10-16 Lab Batch Date: 2024-10-21 Volume: 355 ml
Sample # AAGA960 Completion Date: 2024-10-29

Heavy Metals **Passed**
Specimen Weight: 254.100 mg SOP13.048 (ICP-MS)

Dilution Factor: 196

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 **Passed**
Specimen Weight: 601.500 mg SOP13.007 (LCMS)

Dilution Factor: 2.490

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 **Passed**
Specimen Weight: 50.000 mg 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	3554.773				

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Completion Date: 2024-10-29

Volume: 355 ml



Pesticides

Specimen Weight: 601.500 mg

Passed

SOP13.007 (LCMS/GCMS)

Dilution Factor: 2.490

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
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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