



Quad Hawaiian Haze
Sample Matrix:
CBD/HEMP
Flower & Plants
(Inhalation - Heated)



DEA No. RA0571996
FL License # CMTL-0003
CLIA No. 10D1094068

Certificate of Analysis

Compliance Test

KMS AG CONSULTING
34081 EXCOR RD BUILDING A
EUGENE, OREGON 97405

Batch # HHQ142023
Batch Date: 2023-01-04
Extracted From: Industrial Hemp

Sampling Method: MSP 7.3.1
Test Reg State: Oregon

Production Facility: USA
Production Date: 2023-01-04

Order # KMS230104-150001
Order Date: 2023-01-04
Sample # AADY049

Sampling Date: 2023-01-06
Lab Batch Date: 2023-01-06
Completion Date: 2023-01-10

Initial Gross Weight: 16.198 g



Product Image

Potency Tested	HHCP Tested	Heavy Metals Passed	Mycotoxins Passed	Pesticides Passed
Residual Solvents Passed	Moisture Tested	Listeria Monocytogenes Passed	Pathogenic Passed	

Delta 8/Delta 10 Potency 13 - (LCUV) + Potency 23 (LCUV)

Tested
SOP13.002 (LCUV)

Specimen Weight: 209.500 mg

Analyte	Dilution (1:n)	LOD (%)	LOQ (%)	Result (mg/g)	(%)
CBDA	1500.000	1.00E-5	0.0015	106.9000	10.6900
CBGA	1500.000	8.00E-5	0.0015	67.6200	6.7620
CBD	1500.000	5.40E-5	0.0015	32.1900	3.2190
Delta-8 THC-O Acetate	150.000	2.70E-5	0.003	22.7000	2.2700
Delta-8 THC	1500.000	2.60E-5	0.0015	22.5900	2.2590
Delta6a10a-THC	1500.000	8.47E-5	0.0015	14.090	1.409
CBC	1500.000	1.80E-5	0.0015	9.1800	0.9180
Delta-9 THC-O Acetate	15.000	7.70E-5	0.003	6.2850	0.6285
CBCA	15.000	1.07E-4	0.0015	4.9170	0.4917
THCA-A	1500.000	3.20E-5	0.0015	3.3600	0.3360
CBG	1500.000	2.48E-4	0.0015	3.2100	0.3210
Delta-10 THC	1500.000	3.00E-6	0.0015	0.157	0.157
CBN	1500.000	1.40E-5	0.0015	1.4700	0.1470
CBNA	15.000	9.50E-5	0.0015	1.4560	0.1456
Delta-8 THCV	15.000	4.00E-5	0.0015	0.7310	0.0731
CBDVA	15.000	1.40E-5	0.0015	0.6440	0.0644
CBDV	1500.000	6.50E-5	0.0015	<LOQ	<LOQ
Delta-9 THC	1500.000	2.80E-5	7.5E-5	<LOQ	<LOQ
THCV	1500.000	7.00E-6	0.0015	<LOQ	<LOQ
CBL	15.000	3.50E-5	0.0015	<LOQ	<LOQ
CBT	15.000	2.00E-4	0.0015	<LOQ	<LOQ
Exo-THC	15.000	2.30E-4	0.0015	<LOQ	<LOQ
THCVA	15.000	4.70E-5	0.0015	<LOQ	<LOQ

Potency Summary

2.259% Total Delta 8 <LOQ	0.157% Total Delta 10 <LOQ
3.203% Total HHC <LOQ	0.295% Total Active THC 0.294672mg
12.594% Total Active CBD 12.59413mg	6.251% Total CBG <LOQ
0.275% Total CBN <LOQ	5.786% Other Cannabinoids <LOQ
33.251% Total Cannabinoids <LOQ	

Summary Results determined from two distinct Potency Tests - Delta 8/Delta 10 Potency 13 - (LCUV) + Potency 23 (LCUV)
Summary results above show the dry weight concentration

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Aixia Sun
Aixia Sun Lab Director/Principal Scientist
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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, Other Cannabinoids Total = Total Cannabinoids - All the listed cannabinoids on the summary section, Total Detected Cannabinoids = Delta6a10a-THC + Delta8-THC + Total CBN + CBT + Delta8-THCV + Total CBG + Total CBD + Total THCV + CBL + Total THC + Total CBC + Total CBDV + Delta10-THC + Total THC-O-Acetate. (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) = aw (area ratio) = Area Ratio, (mg/Kg) = Milligram per Kilogram, *Measurement of Uncertainty = +/- 10%

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Order Date: 2023-01-04
Sample # AADY049

Sampling Date: 2023-01-06
Lab Batch Date: 2023-01-06
Completion Date: 2023-01-10

Initial Gross Weight: 16.198 g

Pesticides

Specimen Weight: 269.100 mg

Dilution Factor: 5.570

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	Imazalil	2.4800E-1	30	100	<LOQ
Acephate	2.3000E-2	30	3000	<LOQ	Imidacloprid	9.4000E-2	30	3000	<LOQ
Acequinocyl	9.5640E+0	48	2000	<LOQ	Kresoxim Methyl	4.2000E-2	30	1000	<LOQ
Acetamiprid	5.2000E-2	30	3000	<LOQ	Malathion	8.2000E-2	30	2000	<LOQ
Aldicarb	2.6000E-2	30	100	<LOQ	Metolaxyl	8.1000E-2	10	3000	<LOQ
Azoxystrobin	8.1000E-2	10	3000	<LOQ	Methiocarb	3.2000E-2	30	100	<LOQ
Bifenazate	1.4150E+0	30	3000	<LOQ	Methomyl	2.2000E-2	30	100	<LOQ
Bifenthrin	4.3000E-2	30	500	<LOQ	Mevinphos	2.1500E+0	30	100	<LOQ
Carbaryl	2.2000E-2	10	500	<LOQ	Myclobutanil	1.0290E+0	30	3000	<LOQ
Chlorfenapyr	8.0000E-2	48	100	<LOQ	Naled	9.5000E-2	30	500	<LOQ
Chlorpyrifos	3.5000E-2	30	100	<LOQ	Oxamyl	2.5000E-2	30	500	<LOQ
Clofentezine	1.1900E-1	30	500	<LOQ	Pacllobutrazol	6.5000E-2	30	100	<LOQ
Coumaphos	3.7700E+0	30	100	<LOQ	Parathion-methyl	1.7100E+0	48	100	<LOQ
Cyfluthrin	3.1100E+0	30	1000	<LOQ	Pentachloronitrobenzene	1.3200E+0	30	200	<LOQ
Cypermethrin	1.4490E+0	30	1000	<LOQ	Permethrin	3.4300E-1	30	1000	<LOQ
Daminozide	8.8500E-1	30	100	<LOQ	Phosmet	8.2000E-2	30	200	<LOQ
Diazinon	4.4000E-2	30	200	<LOQ	Piperonylbutoxide	2.9000E-2	30	3000	<LOQ
Dichlorvos	2.1820E+0	30	100	<LOQ	Prallethrin	7.9800E-1	30	400	<LOQ
Dimethoate	2.1000E-2	30	100	<LOQ	Propiconazole	7.0000E-2	30	1000	<LOQ
Dimethomorph	5.8300E+0	30	3000	<LOQ	Propoxur	4.6000E-2	30	100	<LOQ
Ethoprophos	3.6000E-1	30	100	<LOQ	Pyrethrins	2.3593E+1	30	1000	<LOQ
Etofenprox	1.1600E-1	30	100	<LOQ	Pyridaben	3.2000E-2	30	3000	<LOQ
Etoxazole	9.5000E-2	30	1500	<LOQ	Spinetoram	8.0000E-2	30	3000	<LOQ
Fenhexamid	5.1000E-1	30	3000	<LOQ	Spiromesifen	2.6100E-1	30	3000	<LOQ
Fenoxycarb	1.0700E-1	30	100	<LOQ	Spirotetramat	8.9000E-2	30	3000	<LOQ
Fenpyroximate	1.3800E-1	30	2000	<LOQ	Spiroxamine	1.3100E-1	30	100	<LOQ
Fipronil	1.0700E-1	30	100	<LOQ	Tebuconazole	6.7000E-2	30	1000	<LOQ
Fonicamid	5.1700E-1	30	2000	<LOQ	Thiacloprid	6.4000E-2	30	100	<LOQ
Fludioxonil	1.7400E+0	30	3000	<LOQ	Thiamethoxam	5.0000E-2	30	1000	<LOQ
Hexythiazox	4.9000E-2	30	2000	<LOQ	Trifloxystrobin	3.7000E-2	30	3000	<LOQ

Passed

SOP13.007
(LCMS/GCMS)

Pathogenic SAE (qPCR)

Specimen Weight: 235.250 mg

Dilution Factor: 1.000

Analyte	Action Level (cfu/g)	Result (cfu/g)	Analyte	Action Level (cfu/g)	Result (cfu/g)
Aspergillus (Flavus, Fumigatus, Niger, Terreus)	1	Absence in 1g	Salmonella	1	Absence in 1g
E.Coli	1	Absence in 1g			

Passed

SOP13.029
(qPCR)



Listeria Monocytogenes

Specimen Weight: 982.100 mg

Dilution Factor: 1.000

Analyte	Action Level (cfu/g)	Result
Listeria Monocytogenes	1	Absence in 1g

Passed

SOP13.032
(qPCR)



Moisture

Specimen Weight: N/A Dilution Factor: 1.000

Analyte	Action Level (%)	Result (%)
Moisture	15	7.430

Tested

SOP13.015
(Moisture Meter)

HHCP

Specimen Weight: 209.500 mg

Dilution Factor: 7500.000

Analyte	LOD (%)	LOQ (%)	Result (mg/g)	(%)	Analyte	LOD (%)	LOQ (%)	Result (mg/g)	(%)
(9R)-HHC	3.1100E-7	7.5E-5	20.3000	2.03	9(S)-HHCP	2.5500E-6	7.5E-5	<LOQ	
(9S)-HHC	8.7400E-7	7.5E-5	8.2300	0.823	Delta-9 THC	2.8000E-5	7.5E-5	<LOQ	
(±)-9β-hydroxy-HHC	4.5800E-7	7.5E-5	3.5000	0.35	Total HHC			32.0300	3.203
9(R)-HHCP	3.0900E-6	7.5E-5	<LOQ						

Tested

SOP13.050 (LCMS)

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Sampling Date: 2023-01-06
Lab Batch Date: 2023-01-06
Completion Date: 2023-01-10

Initial Gross Weight: 16.198 g

Residual Solvents - FL (CBD)

Specimen Weight: 10.400 mg

Passed
SOP13.039 (GCMS)

Dilution Factor: 1.000

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	<LOQ	Heptane	0.0013	1.39	5000	<LOQ
1,2-Dichloroethane	0.0003	0.04	5	<LOQ	Hexane	0.068	1.17	290	<LOQ
Acetone	0.015	2.08	5000	<LOQ	Isopropyl alcohol	0.0048	1.39	500	<LOQ
Acetonitrile	0.06	1.17	410	<LOQ	Methanol	0.0005	0.69	3000	16.100
Benzene	0.0002	0.02	2	<LOQ	Methylene chloride	0.0029	2.43	600	<LOQ
Butanes	0.4167	2.5	2000	<LOQ	Pentane	0.037	2.08	5000	<LOQ
Chloroform	0.0001	0.04	60	<LOQ	Propane	0.031	5.83	2100	<LOQ
Ethanol	0.0021	2.78	5000	<LOQ	Toluene	0.0009	2.92	890	<LOQ
Ethyl Acetate	0.0012	1.11	5000	<LOQ	Total Xylenes	0.0001	2.92	2170	<LOQ
Ethyl Ether	0.0049	1.39	5000	<LOQ	Trichloroethylene	0.0014	0.49	80	<LOQ
Ethylene Oxide	0.0038	0.1	5	<LOQ					

Mycotoxins

Specimen Weight: 269.100 mg

Passed
SOP13.007 (LCMS)

Dilution Factor: 5.570

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	12	20	<LOQ
Aflatoxin G1	3.0400E-1	6	20	<LOQ					

Heavy Metals

Specimen Weight: 253.520 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	130.000	Lead (Pb)	11.76	100	500	358.000
Cadmium (Cd)	.64	100	500	103.000	Mercury (Hg)	.58	100	3000	<LOQ

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