

Certificate of Analysis

Compliance Test

Client Information:			Batch #	Test Reg State: Utah
			Batch Date: 2024-02-02	
			Extracted From: Hemp	
Order #	Sampling Date: 2024-04-01	Initial Gross Weight: 20.303 g		
Order Date: 2024-03-29	Lab Batch Date: 2024-04-01			
Sample # AAFL081	Completion Date: 2024-04-09			



Potency

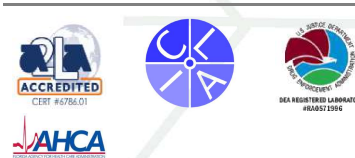
Tested

Potency 25 (LCUV)		Tested		Potency Summary	
Specimen Weight: 508.230 mg		SOP13.001 (LCUV)		Total Active THC	Total Active CBD
				None Detected	1.209%
Analyte	Dilution (1:n)	LOD (%)	LOQ (%)	Result (mg/g)	(%)
CBT	5000.000	2.00E-4	0.0015	671.0000	67.1000
CBC	50.000	1.80E-5	0.0015	31.9500	3.1950
CBD	50.000	5.40E-5	0.0015	12.0900	1.2090
CBL	50.000	3.50E-5	0.0015	8.3780	0.8378
CBN	50.000	1.40E-5	0.0015	0.8500	0.0850
THCB *	50.000	1.80E-4	0.00195	0.6460	0.0646
CBDV	50.000	6.50E-5	0.0015	0.4700	0.0470
THCV	50.000	7.00E-6	0.0015	0.4000	0.0400
CBCA	50.000	1.07E-4	0.0015	<LOQ	<LOQ
CBDA	50.000	1.00E-5	0.0015	<LOQ	<LOQ
CBDVA	50.000	1.40E-5	0.0015	<LOQ	<LOQ
CBG	50.000	2.48E-4	0.0015	<LOQ	<LOQ
CBGA	50.000	8.00E-5	0.0015	<LOQ	<LOQ
CBNA	50.000	9.50E-5	0.0015	<LOQ	<LOQ
Delta-8 THC	50.000	2.60E-5	0.0015	<LOQ	<LOQ
Delta-8 THC-O Acetate	50.000	2.70E-5	0.003	<LOQ	<LOQ
Delta-8 THCV	50.000	4.00E-5	0.0015	<LOQ	<LOQ
Delta-9 THC	50.000	1.30E-5	0.0015	<LOQ	<LOQ
Delta-9 THC-O Acetate	50.000	7.70E-5	0.003	<LOQ	<LOQ
Delta8-THCP *	50.000	3.75E-4	0.0015	<LOQ	<LOQ
Delta9-THCP *	50.000	1.17E-5	0.0012	<LOQ	<LOQ
Exo-THC	50.000	2.30E-4	0.0015	<LOQ	<LOQ
THCA-A	50.000	3.20E-5	0.0015	<LOQ	<LOQ
THCH *	50.000	3.50E-4	0.00195	<LOQ	<LOQ
THCVA	50.000	4.70E-5	0.0015	<LOQ	<LOQ
Total Active CBD	50.000			12.090	1.209
Total Active THC	50.000			<LOQ	<LOQ

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 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 = 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 UT rule R68-37. Failed – Analyte/microbe is at the level that equal or above the action limit per UT rule R68-37 Sample not received via laboratory sampling.

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Certificate of Analysis

Compliance Test

Client Information:

Batch #
Batch Date: 2024-02-02
Extracted From: Hemp

Test Reg State: Utah

Production Facility: Red Mesa Science
and Refining
Production Date: 2024-02-02

Order #
Order Date: 2024-03-13
Sample # AAFJ685

Sampling Date: 2024-03-14
Lab Batch Date: 2024-03-14
Completion Date: 2024-03-19

Initial Gross Weight: 20.303 g

Filth and Foreign Material

Specimen Weight: N/A Dilution Factor: 1,000

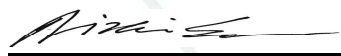
			Passed SOP13.020 (Visual/Microscope)		
Analyte	Action Level (%)	Result (%)	Analyte	Action Level (%)	Result (%)
Covered Area	10	0.000	Weight %	1	0.000
Feces	0.5	0.000			

Microbiology (Petrifilm)

Specimen Weight: 994.100 mg

Dilution Factor: 1,000

			Passed SOP13.003 (Petrifilm)		
Analyte	LOQ (cfu/g)	Action Level (cfu/g)	Analyte	LOQ (cfu/g)	Action Level (cfu/g)
Aerobic Bacteria	10	10000	Total Enterobacteriaceae	10	1000
E. Coli / Coliform	10	100	Yeast/Mold	10	1000


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

Definitions are found on page 1

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Certificate of Analysis

Compliance Test

Client Information:

Batch #
Batch Date: 2024-02-02
Extracted From: Hemp

Test Reg State: Utah

Production Facility: Red Mesa Science
and Refining
Production Date: 2024-02-02

Order #
Order Date: 2024-03-13
Sample # AAFJ685

Sampling Date: 2024-03-14
Lab Batch Date: 2024-03-14
Completion Date: 2024-03-19

Initial Gross Weight: 20.303 g

Heavy Metals (For UT Clients ONLY)

Specimen Weight: 249.900 mg

Passed
SOP13.048 (ICP-MS)

Dilution Factor: 200,080

Analyte	LOD (ppb)	LOQ (ppb)	Action Level (ppb)	Result (ppb)	Analyte	LOD (ppb)	LOQ (ppb)	Action Level (ppb)	Result (ppb)
Arsenic (As)	.014	100	2000	<LOQ	Lead (Pb)	.006	100	1200	<LOQ
Cadmium (Cd)	.002	100	820	<LOQ	Mercury (Hg)	.014	100	400	<LOQ

Mycotoxin - Utah

Specimen Weight: 581.900 mg

Passed
SOP13.007 (LCMS)

Dilution Factor: 2,580

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					

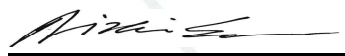
Residual Solvents (For UT Clients ONLY)

Specimen Weight: 54.100 mg

Passed
SOP13.056, 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)
1,2 Dimethoxyethane	.004	6.4	100	<LOQ	Ethyl Acetate	.0017	6.4	5000	<LOQ
1,4 Dioxane	.0022	8	380	<LOQ	Ethyl Ether	.0004	8	5000	<LOQ
1-Butanol	.0103	6.4	5000	<LOQ	Ethylene glycol	.0013	6.4	620	<LOQ
1-Pentanol	.0103	0.32	5000	<LOQ	Ethylene Oxide		0.32	50	<LOQ
1-Propanol	.003	8	5000	<LOQ	Heptane	.002	8	5000	<LOQ
2,2-dimethylbutane	.0016	12	290	<LOQ	Isopropyl acetate	.0012	8	5000	<LOQ
2,3-dimethylbutane	.0011	26.668	290	<LOQ	Isopropyl alcohol	.111	6.4	5000	<LOQ
2-Butanol	.0002	8	5000	<LOQ	Methanol	.0021	4	3000	<LOQ
2-Ethoxyethanol	.0013	4	160	<LOQ	Methylene chloride	.0006	0.8	600	<LOQ
2-methylbutane	.0108	2	5000	<LOQ	Methylpropane	.0366	2	5000	<LOQ
2-Methylpentane	.0108	6.4	290	<LOQ	N,N-dimethylacetamide	.0229	6.4	1090	<LOQ
3-Methylpentane	.0108	2.4	290	<LOQ	N,N-dimethylformamide	.005	0.132	880	<LOQ
Acetone	.0009	12	5000	<LOQ	n-Hexane		0.8	290	<LOQ
Acetonitrile	.0011	0.96	410	<LOQ	Pentane	.0167	12	5000	<LOQ
Benzene	.0003	0.016	2	<LOQ	Propane	.0849	26.668	5000	<LOQ
Butane	.0028	13.32	5000	<LOQ	Pyridine	.0014	6.4	100	<LOQ
Cumene	.0002	0.032	70	<LOQ	Sulfolane	.0518	6.4	160	<LOQ
Cyclohexane	.0024	0.032	3880	<LOQ	Tetrahydrofuran	.0006	6.4	720	<LOQ
Dimethyl sulfoxide	.001	6.4	5000	<LOQ	Toluene	.0003	2.4	890	<LOQ
Ethanol	.0044	16	NA	<LOQ	Total Xylenes	.0002	7.2	1000	<LOQ


Aixa Sun Lab Director/Principal Scientist
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Certificate of Analysis
R&D

Client Information:

Batch #
Batch Date: 2024-03-04
Extracted From: Distillate
Test Reg State: Utah

Order #
Order Date: 2024-03-07
Sample # AAFJ223
Sampling Date: 2024-03-08
Lab Batch Date: 2024-03-08
Completion Date: 2024-03-12
Initial Gross Weight: 20.303 g



Pesticides
Passed

Product Image

Pesticides (UT Levels)
Specimen Weight: 583.200 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	500	<LOQ	Fludioxonil	1.7400E+0	30	400	<LOQ
Acephate	2.3000E-2	30	400	<LOQ	Hexythiazox	4.9000E-2	30	1000	<LOQ
Acequinocyl	9.5640E+0	48	2000	<LOQ	Imazalil	2.4800E-1	30	200	<LOQ
Acetamiprid	5.2000E-2	30	200	<LOQ	Imidacloprid	9.4000E-2	30	400	<LOQ
Aldicarb	2.6000E-2	30	400	<LOQ	Kresoxim Methyl	4.2000E-2	30	400	<LOQ
Azoxystrobin	8.1000E-2	10	200	<LOQ	Metalaxyl	8.1000E-2	10	200	<LOQ
Bifenazate	1.4150E+0	30	200	<LOQ	Methiocarb	2.2000E-2	30	200	<LOQ
Bifenthrin	4.3000E-2	30	200	<LOQ	Methomyl	2.2000E-2	30	400	<LOQ
Boscalid	5.5000E-2	30	400	<LOQ	MGK-264		48	200	<LOQ
Carbaryl	2.2000E-2	10	200	<LOQ	Myclobutanil	1.0290E+0	30	200	<LOQ
Carbofuran	3.4000E-2	30	200	<LOQ	Naled	9.5000E-2	30	500	<LOQ
Chlorantraniliprole	3.3000E-2	30	200	<LOQ	Oxamyl	2.5000E-2	30	1000	<LOQ
Chlorfenapyr	8.0000E-2	48	1000	<LOQ	Paclobutrazol	6.5000E-2	30	400	<LOQ
Chlorpyrifos	3.5000E-2	30	200	<LOQ	Phosmet	8.2000E-2	30	200	<LOQ
Clofentezine	1.1900E-1	30	200	<LOQ	Piperonylbutoxide	2.9000E-2	30	2000	<LOQ
Cyfluthrin	3.1100E+0	30	1000	<LOQ	Prallethrin	7.9800E-1	30	200	<LOQ
Cypermethrin	1.4490E+0	30	1000	<LOQ	Propiconazole	7.0000E-2	30	400	<LOQ
Daminozide	8.8500E-1	30	1000	<LOQ	Propoxur		30	200	<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	200	<LOQ
Dimethoate	2.1000E-2	30	200	<LOQ	Spinosad	8.8000E-2	30	200	<LOQ
Ethoprophos	3.6000E-1	30	200	<LOQ	Spiromesifen	2.6100E-1	30	200	<LOQ
Etofenprox	1.1600E-1	30	400	<LOQ	Spirotetramat	8.9000E-2	30	200	<LOQ
Etoxazole	1.1600E-1	30	200	<LOQ	Spiroxamine	1.3100E-1	30	400	<LOQ
Fenoxycarb	1.0700E-1	30	200	<LOQ	Tebuconazole	6.7000E-2	30	400	<LOQ
Fenpyroximate	1.3800E-1	30	400	<LOQ	Thiacloprid	6.4000E-2	30	200	<LOQ
Fipronil	1.0700E-1	30	400	<LOQ	Thiamethoxam	5.0000E-2	30	200	<LOQ
Flonicamid	5.1700E-1	30	1000	<LOQ	Trifloxystrobin	3.7000E-2	30	200	<LOQ

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