



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 # HH.5.18.2022
Batch Date: 2022-05-18
Extracted From: Industrial hemp

Sampling Method: MSP 7.3.1
Test Reg State: Oregon

Production Facility: USA
Production Date: 2022-05-18

Order # KMS220519-040001
Order Date: 2022-05-19
Sample # AACV735

Sampling Date: 2022-05-19
Lab Batch Date: 2022-05-19
Completion Date: 2022-05-25

Initial Gross Weight: 29.710 g



Product Image



Acetic Anhydride
Tested



Potency
Tested



Heavy Metals
Passed



Mycotoxins
Passed



Pesticides
Passed



Residual Solvents
Passed



Listeria
Monocytogenes
Passed



Pathogenic
Passed



Potency 21 (LCUV)

Specimen Weight: 200.290 mg

Tested

SOP13.002 (LCUV)

Analyte	Dilution (1:n)	LOD (%)	LOQ (%)	Result (mg/g)	(%)
Delta-8 THC-O Acetate	1500.000	0.000027	0.0003	461.0000	46.1000
CBDA	1500.000	0.00001	0.0015	77.5200	7.7520
Delta-8 THC	150.000	0.000026	0.0015	12.7700	1.2770
Delta-9 THC-O Acetate	15.000	0.000077	0.0003	12.2600	1.2260
CBD	150.000	0.000054	0.0015	9.3030	0.9303
CBT	15.000	0.0002	0.0015	5.6830	0.5683
CBCA	15.000	0.000107	0.0015	4.6210	0.4621
THCA	15.000	0.000032	0.0015	2.1590	0.2159
CBGA	15.000	0.00008	0.0015	2.1160	0.2116
Delta-9 THC	15.000	0.000013	0.0015	1.9260	0.1926
CBC	15.000	0.000018	0.0015	1.3220	0.1322
CBNA	15.000	0.000095	0.0015	0.5910	0.0591
CBG	15.000	0.000248	0.0015	0.5700	0.0570
CBDVA	15.000	0.000014	0.0015	0.3640	0.0364
Exo-THC	15.000	0.00023	0.0015		<LOQ
THCV	15.000	0.000007	0.0015		<LOQ
THCVA	15.000	0.000047	0.0015		<LOQ
Delta-8 THCV	15.000	0.00004	0.0015		<LOQ
CBN	15.000	0.000014	0.0015		<LOQ
CBL	15.000	0.000035	0.0015		<LOQ
CBDV	15.000	0.000065	0.0015		<LOQ



Potency Summary

Total THC 0.382%	Total CBD 7.729%
Total CBG 0.243%	Total CBN 0.052%
Other Cannabinoids 49.740%	Total Cannabinoids 58.146%

Xueli Gao
Ph.D., DABT
Lab Toxicologist

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



Definitions and Abbreviations used in this report: Total CBD = CBD + (CBD-A * 0.877), *Total CBDV = CBDV + (CBDVA * 0.87), Total 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 = Delta8a10a-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, Analyte Details above show the Dry Weight Concentrations unless specified as 12% moisture concentration. (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: 2022-05-19
Sample # AACV735

Sampling Date: 2022-05-19
Lab Batch Date: 2022-05-19
Completion Date: 2022-05-25

Initial Gross Weight: 29.710 g



Pesticides

Specimen Weight: 266.200 mg

Dilution Factor: 5.635

Analyte	LOQ (ppb)	Action Level (ppb)	Result (ppb)	Analyte	LOQ (ppb)	Action Level (ppb)	Result (ppb)
Abamectin	28.23	300	<LOQ	Imazalil	30	100	<LOQ
Acephate	30	3000	<LOQ	Imidacloprid	30	3000	<LOQ
Acequinocyl	48	2000	<LOQ	Kresoxim Methyl	30	1000	<LOQ
Acetamiprid	30	3000	<LOQ	Malathion	30	2000	<LOQ
Aldicarb	30	100	<LOQ	Metalaxyl	10	3000	<LOQ
Azoxystrobin	10	3000	<LOQ	Methiocarb	30	100	<LOQ
Bifenazate	30	3000	<LOQ	Methomyl	30	100	<LOQ
Bifenthrin	30	500	<LOQ	Mevinphos	30	100	<LOQ
Carbaryl	10	500	<LOQ	Myclobutanil	30	3000	<LOQ
Chlorfenapyr	48	100	<LOQ	Naled	30	500	<LOQ
Chlorpyrifos	30	100	<LOQ	Oxamyl	30	500	<LOQ
Clofentezine	30	500	<LOQ	Paclobutrazol	30	100	<LOQ
Coumaphos	30	100	<LOQ	Parathion-methyl	48	100	<LOQ
Cyfluthrin	30	1000	<LOQ	Pentachloronitro benzene	30	200	<LOQ
Cypermethrin	30	1000	<LOQ	Permethrin	30	1000	<LOQ
Daminozide	30	100	<LOQ	Phosmet	30	200	<LOQ
Diazinon	30	200	<LOQ	Piperonylbutoxid e	30	3000	<LOQ
Dichlorvos	30	100	<LOQ	Prallethrin	30	400	<LOQ
Dimethoate	30	100	<LOQ	Propiconazole	30	1000	<LOQ
Dimethomorph	30	3000	<LOQ	Propoxur	30	100	<LOQ
Ethoprophos	30	100	<LOQ	Pyrethrins	30	1000	<LOQ
Etofenprox	30	100	<LOQ	Pyridaben	30	3000	<LOQ
Etoxazole	30	1500	<LOQ	Spinetoram	30	3000	<LOQ
Fenhexamid	30	3000	<LOQ	Spiromesifen	30	3000	<LOQ
Fenoxycarb	30	100	<LOQ	Spirotetramat	30	3000	<LOQ
Fenpyroximate	30	2000	<LOQ	Spiroxamine	30	100	<LOQ
Fipronil	30	100	<LOQ	Tebuconazole	30	1000	<LOQ
Flonicamid	30	2000	<LOQ	Thiacloprid	30	100	<LOQ
Fludioxonil	30	3000	<LOQ	Thiamethoxam	30	1000	<LOQ
Hexythiazox	30	2000	<LOQ	Trifloxystrobin	30	3000	<LOQ

Passed
SOP13.007
(LCMS/GCMS)



Residual Solvents - FL (CBD)

Specimen Weight: 10.300 mg

Dilution Factor: 1.000

Analyte	LOQ (ppm)	Action Level (ppm)	Result (ppm)	Analyte	LOQ (ppm)	Action Level (ppm)	Result (ppm)
1,1-Dichloroethane	0.16	8	<LOQ	Heptane	1.39	5000	<LOQ
1,2-Dichloroethane	0.04	5	<LOQ	Hexane	1.17	290	<LOQ
Acetone	2.08	5000	<LOQ	Isopropyl alcohol	1.39	500	<LOQ
Acetonitrile	1.17	410	<LOQ	Methanol	0.69	3000	Passed
Benzene	0.02	2	<LOQ	Methylene chloride	2.43	600	<LOQ
Butanes	2.5	2000	<LOQ	Pentane	2.08	5000	<LOQ
Chloroform	0.04	60	<LOQ	Propane	5.83	2100	<LOQ
Ethanol	2.78	5000	Passed	Toluene	2.92	890	<LOQ
Ethyl Acetate	1.11	5000	<LOQ	Total Xylenes	2.92	2170	<LOQ
Ethyl Ether	1.39	5000	<LOQ	Trichloroethylene	0.49	80	<LOQ
Ethylene Oxide	0.1	5	<LOQ				

Passed
SOP13.039 (GCMS)



Mycotoxins

Specimen Weight: 266.200 mg

Dilution Factor: 5.635

Analyte	LOQ (ppb)	Action Level (ppb)	Result (ppb)	Analyte	LOQ (ppb)	Action Level (ppb)	Result (ppb)
Aflatoxin B1	6	20	<LOQ	Aflatoxin G2	6	20	<LOQ
Aflatoxin B2	6	20	<LOQ	Ochratoxin A	12	20	<LOQ
Aflatoxin G1	6	20	<LOQ				

Passed
SOP13.007 (LCMS)



Heavy Metals

Specimen Weight: 252.520 mg

Dilution Factor: 198

Analyte	LOQ (ppb)	Action Level (ppb)	Result (ppb)	Analyte	LOQ (ppb)	Action Level (ppb)	Result (ppb)
Arsenic (As)	100	1500	<LOQ	Lead (Pb)	100	500	107.016
Cadmium (Cd)	100	500	<LOQ	Mercury (Hg)	100	3000	<LOQ

Passed
SOP13.048 (ICP-MS)



Acetic Anhydride

Specimen Weight: 68.100 mg

Dilution Factor: 1.000

Analyte	LOQ (ppm)	Result (ppm)
Acetic Anhydride	2.6	<LOQ

Tested
SOP13.046 (GCMS)

Xueli Gao
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Lab Toxicologist

Aixia Sun
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Lab Director/Principal Scientist



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Pathogenic SAE (qPCR)

Passed

Specimen Weight: 256.200 mg

SOP13.010 (qPCR)

Dilution Factor: 1.000

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



Listeria Monocytogenes

Passed

Specimen Weight: 1021.600 mg

SOP13.010 (qPCR)

Dilution Factor: 1.000

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

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