



**THCO Vape Distillate**  
Sample Matrix:  
CBD/HEMP  
Derivative Products  
(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 # THC0822  
Batch Date: 2022-08-24  
Extracted From: Industrial Hemp

Sampling Method: MSP 7.3.1  
Test Reg State: Oregon

Production Facility: USA  
Production Date: 2022-08-24

Order # KMS220826-020001  
Order Date: 2022-08-26  
Sample # AAD1004

Sampling Date: 2022-08-26  
Lab Batch Date: 2022-08-26  
Completion Date: 2022-09-08

Initial Gross Weight: 87.179 g



Product Image

<b>Acetic Anhydride</b> Tested	<b>Potency</b> Tested	<b>Heavy Metals</b> Passed	<b>2,3-Butanedione</b> Passed	<b>Mycotoxins</b> Passed
<b>Pesticides</b> Passed	<b>Residual Solvents</b> Passed	<b>Pathogenic Microbiology</b> Passed	<b>Listeria Monocytogenes</b> Passed	<b>Vitamin E</b> Tested

### Potency 21 (LCUV)

Specimen Weight: 51.100 mg

Tested

SOP13.002 (LCUV)

Analyte	Dilution (1:n)	LOD (%)	LOQ (%)	Result (mg/g)	(%)
Delta-8 THC-O Acetate	1000.000	2.70E-5	0.0003	948.2000	94.8200
Delta-9 THC-O Acetate	10.000	7.70E-5	0.0003	20.0500	2.0050
Delta-8 THC	10.000	2.60E-5	0.0015	14.4700	1.4470
Delta-8 THCV	10.000	4.00E-5	0.0015	0.3010	0.0301
CBC	10.000	1.80E-5	0.0015		<LOQ
CBCA	10.000	1.07E-4	0.0015		<LOQ
CBD	10.000	5.40E-5	0.0015		<LOQ
CBDA	10.000	1.00E-5	0.0015		<LOQ
CBDV	10.000	6.50E-5	0.0015		<LOQ
CBDVA	10.000	1.40E-5	0.0015		<LOQ
CBG	10.000	2.48E-4	0.0015		<LOQ
CBGA	10.000	8.00E-5	0.0015		<LOQ
CBL	10.000	3.50E-5	0.0015		<LOQ
CBN	10.000	1.40E-5	0.0015		<LOQ
CBNA	10.000	9.50E-5	0.0015		<LOQ
CBT	10.000	2.00E-4	0.0015		<LOQ
Delta-9 THC	10.000	1.30E-5	0.0015		<LOQ
Exo-THC	10.000	2.30E-4	0.0015		<LOQ
THCA	10.000	3.20E-5	0.0015		<LOQ
THCV	10.000	7.00E-6	0.0015		<LOQ
THCVA	10.000	4.70E-5	0.0015		<LOQ

### Potency Summary

Total Active THC None Detected	Total Active CBD None Detected
Total CBG None Detected	Total CBN None Detected
Other Cannabinoids 98.302%	Total Cannabinoids 98.302%

*Xueli Gao*  
Xueli Gao  
Lab Toxicologist  
Ph.D., DABT

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



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Production Facility: USA  
Production Date: 2022-08-24

Order # KMS220826-020001  
Order Date: 2022-08-26  
Sample #: AAD1004

Sampling Date: 2022-08-26  
Lab Batch Date: 2022-08-26  
Completion Date: 2022-09-08

Initial Gross Weight: 87.179 g



## Pesticides

Specimen Weight: 273.500 mg

Dilution Factor: 5.480

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	Metaxyl	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	Paclbutrazol	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 Microbiology SAE (MicroArray)

**Passed**  
SOP13.019  
(Micro Array)

Specimen Weight: 1006.900 mg

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



## Acetic Anhydride

Specimen Weight: 10.700 mg

**Tested**  
SOP13.046  
(GCMS)

Dilution Factor: 1.000

Analyte	LOD (ppm)	LOQ (ppm)	Result (ppm)
Acetic Anhydride	0.06	2.6	49.734



## Listeria Monocytogenes

Specimen Weight: 1012.590 mg

**Passed**  
SOP13.032  
(qPCR)

Dilution Factor: 1.000

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



## Vitamin E (Tocopheryl Acetate)

Specimen Weight: 273.500 mg

**Tested**  
SOP13.007 (LC-MS)

Dilution Factor: 5.480

Analyte	LOD (ppb)	Result (ppb)
Vitamin E Acetate	.705	Not Detected



## Mycotoxins

Specimen Weight: 273.500 mg

**Passed**  
SOP13.007 (LCMS)

Dilution Factor: 5.480

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					

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Lab Toxicologist

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Test Reg State: Oregon

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Production Date: 2022-08-24

Order # KMS220826-020001  
Order Date: 2022-08-26  
Sample # AADI004

Sampling Date: 2022-08-26  
Lab Batch Date: 2022-08-26  
Completion Date: 2022-09-08

Initial Gross Weight: 87.179 g

## Residual Solvents - FL (CBD)

Specimen Weight: 311.100 mg

Dilution Factor: 500.000

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	<LOQ
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					

**Passed**  
SOP13.039 (GCMS)



## 2,3-butanedione(Diacetyl)

Specimen Weight: 311.100 mg

**Passed**  
SOP13.039 (GCMS)

Analyte	LOD (ppm)	LOQ (ppm)	Result (ppm)
2,3-Butanedione	.024	0.024	<LOQ

## Heavy Metals

Specimen Weight: 249.920 mg

Dilution Factor: 200

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

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

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