



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

Certificate of Analysis

Compliance Test

Arete Hemp LLC
1887 Whitney Mesa Dr
Suite 3939
Henderson, NV 89014

Batch # HHC
Batch Date: 2022-09-16
Extracted From: Hemp

Sampling Method: MSP 7.3.1
Test Reg State: Florida

Order # DEL220916-010001
Order Date: 2022-09-16
Sample # AADL252

Sampling Date: 2022-09-24
Lab Batch Date: 2022-09-24
Completion Date: 2022-09-30

Initial Gross Weight: 63.821 g



Product Image



Potency
Tested



HHC Metals
Passed



HHCP
Tested



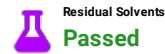
2-Butanedione
Passed



Mycotoxins
Passed



Pesticides
Passed



Residual Solvents
Passed



Pathogenic Microbiology
Passed



Listeria Monocytogenes
Passed



Vitamin E
Passed



Potency 21 (LCUV)

Specimen Weight: 56.040 mg

Tested

SOP13.002 (LCUV)

Analyte	Dilution (1:n)	LOD (%)	LOQ (%)	Result (mg/g)	(%)
CBD	1000.000	5.40E-5	0.0015	202.5690	20.2569
CBT	10.000	2.00E-4	0.0015	8.1890	0.8189
CBG	10.000	2.48E-4	0.0015	4.1480	0.4148
CBN	10.000	1.40E-5	0.0015	2.8840	0.2884
CBC	100.000	1.80E-5	0.0015	2.0630	0.2063
Delta-8 THC	10.000	2.60E-5	0.0015	1.7520	0.1752
THCV	10.000	7.00E-6	0.0015	1.7370	0.1737
CBNA	10.000	9.50E-5	0.0015	1.2930	0.1293
Delta-8 THC-O Acetate	10.000	2.70E-5	0.0003	0.6770	0.0677
CBGA	10.000	1.07E-4	0.0015	<LOQ	
CBDA	10.000	1.00E-5	0.0015	<LOQ	
CBDV	10.000	6.50E-5	0.0015	<LOQ	
CBDA	10.000	1.40E-5	0.0015	<LOQ	
CBGA	10.000	8.00E-5	0.0015	<LOQ	
CBL	10.000	3.50E-5	0.0015	<LOQ	
Delta-8 THCV	10.000	4.00E-5	0.0015	<LOQ	
Delta-9 THC	10.000	1.30E-5	0.0015	<LOQ	
Delta-9 THC-O Acetate	10.000	7.70E-5	0.0003	<LOQ	
Exo-THC	10.000	2.30E-4	0.0015	<LOQ	
THCA	10.000	3.20E-5	0.0015	<LOQ	
THCVA	10.000	4.70E-5	0.0015	<LOQ	



Potency Summary

Total HHC 77.459%	Total Active THC None Detected
Total Active CBD 20.257%	Total CBG 0.415%
Total CBN 0.402%	Other Cannabinoids 1.442%
Total Cannabinoids 99.974%	

Xueli Gao
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Lab Toxicologist

Aixia Sun
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Lab Director/Principal Scientist



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Lab Batch Date: 2022-09-24
Completion Date: 2022-09-30

Initial Gross Weight: 63.821 g

Pesticides FL V4

Specimen Weight: 272.010 mg
Dilution Factor: 5.510

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
Accephate	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	Metaxyl	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	Pacllobutrazol	6.5000E-2	30	100	<LOQ
Chlomequat 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
Ethionphos	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
Fonicamid	5.1700E-1	30	2000	<LOQ					

Passed SOP13.007 (LCMS/GCMS)



Pathogenic Microbiology SAE (MicroArray)

Specimen Weight: 1041.600 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



2,3-butanedione(Diacetyl)

Specimen Weight: 11.100 mg
Dilution Factor: 1.000

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



Listeria Monocytogenes

Specimen Weight: 1013.800 mg
Dilution Factor: 1.000

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



Vitamin E (Tocopheryl Acetate)

Specimen Weight: 272.010 mg
Dilution Factor: 5.510

Analyte	LOD (ppb)	Result (ppb)
Tocopheryl acetate (vitamin E acetate)	.705	<LOQ

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Residual Solvents - FL (CBD)

Specimen Weight: 11.100 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	<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					



HHC Metals

Specimen Weight: 252.200 mg

Passed

SOP13.051 (ICP-MS)

Dilution Factor: 198.255

Analyte	LOD (ppb)	LOQ (ppb)	Action Level (ppb)	Result (ppb)	Analyte	LOD (ppb)	LOQ (ppb)	Action Level (ppb)	Result (ppb)
Arsenic (As)	1.9E-2	100	200	<LOQ	Nickel (Ni)	1.5E-1	250	500	<LOQ
Cadmium (Cd)	4.0E-3	100	200	<LOQ	Palladium (Pd)	7.0E-3	50	100	<LOQ
Lead (Pb)	1.0E-2	100	500	<LOQ	Platinum (Pt)	1.3E-2	50	100	<LOQ
Mercury (Hg)	4.4E-2	100	200	<LOQ	Zinc (Zn)	4.1E-1	1000	na	<LOQ

HHCP

HHCP

Specimen Weight: 56.040 mg

Tested

SOP13.050 (LCMS)

Dilution Factor: 1.000

Analyte	LOD (%)	LOQ (%)	Result (mg/g)	(%)	Analyte	LOD (%)	LOQ (%)	Result (mg/g)	(%)
(9R)-HHC	3.1100E-7	7.5E-5	516.9763	51.69763	9(R)-HHCP	3.0900E-6	7.5E-5	<LOQ	
(9S)-HHC	8.7400E-7	7.5E-5	248.5310	24.8531	9(S)-HHCP	2.5500E-6	7.5E-5	<LOQ	
(±)-9B-hydroxy-HHC	4.5800E-7	7.5E-5	9.0809	0.90809	Total HHC			774.5883	77.45883

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Mycotoxins

Specimen Weight: 272.010 mg

Dilution Factor: 5.510

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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