



License No. 800025015
FL License # CMTL-0003
CLIA No. 10D1094068

Certificate of Analysis

R&D

HFP
3500 W. Moore Ave. Suite. C
Santa Ana, CA 92704

Batch # D8.WAX.8.21
Batch Date: 2021-08-23
Extracted From: Industrial Hemp

Test Reg State: Oregon

Production Facility: USA
Production Date: 2021-08-23

Order # AIR210823-040036
Order Date: 2021-08-23
Sample # AABU576

Sampling Date: 2021-08-24
Lab Batch Date: 2021-08-24
Completion Date: 2021-09-03

Initial Gross Weight: 28.929 g



Product Image

Potency
Tested

Heavy Metals
Passed

2,3-Butanedione
Passed

Mycotoxins
Passed

Pesticides
Passed

Residual Solvents
Passed

Pathogenic Microbiology
Passed

Listeria Monocytogenes
Passed

Vitamin E
Tested



Potency 21

Specimen Weight: 50.450 mg

Tested
(HPLC)

Analyte	Dilution (1:n)	LOD (%)	LOQ (%)	Result (mg/g)	(%)
Delta-8 THC	10.000	0.000026	0.001	708.400	70.840
CBD	10.000	0.000054	0.001	242.000	24.200
CBT	10.000	0.0002	0.001	4.899	0.490
Delta-8 THCV	10.000	0.00004	0.001	3.235	0.324
CBL	10.000	0.000035	0.001		<LOQ
THCV	10.000	0.000007	0.001		<LOQ
CBDA	10.000	0.00001	0.001		<LOQ
CBDV	10.000	0.0000650	0.001		<LOQ
CBDA	10.000	0.000014	0.001		<LOQ
THCA	10.000	0.000047	0.001		<LOQ
THCA-Acetate	10.000	0.000077	0.003		<LOQ
CBN	10.000	0.000014	0.001		<LOQ
THCA-A	10.000	0.000032	0.001		<LOQ
Exo-THC	10.000	0.00023	0.001		<LOQ
Delta-9 THC	10.000	0.000013	0.001		<LOQ
CBGA	10.000	0.000107	0.001		<LOQ
CBG	10.000	0.000248	0.001		<LOQ
Delta-10 THC	10.000	0.000003	0.001		<LOQ
CBGA	10.000	0.00008	0.001		<LOQ
CBNA	10.000	0.000095	0.001		<LOQ
CBC	10.000	0.000018	0.001		<LOQ



Potency Summary

Total THC None Detected	Total CBD 24.200%
Total CBG None Detected	Total CBN None Detected
Other Cannabinoids 0.490%	Total Cannabinoids 95.853%

Xueli Gao
Ph.D., DABT
Lab Toxicologist

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



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Order # AIR210823-040036 Order Date: 2021-08-23 Sample # AABU576	Sampling Date: 2021-08-24 Lab Batch Date: 2021-08-24 Completion Date: 2021-09-03	Initial Gross Weight: 28.929 g	

H Heavy Metals Passed (ICP-MS)

Specimen Weight: 254.700 mg
Dilution Factor: 2.000

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

2,3-butanedione(Diacetyl) Passed (GCMS)

Specimen Weight: 13.200 mg
Dilution Factor: 1.000

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

Mycotoxins Passed (LCMS)

Specimen Weight: 190.200 mg
Dilution Factor: 7.886

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


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Pesticides

Specimen Weight: 190.200 mg

Dilution Factor: 7.886

Passed
(LCMS/GCMS)

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

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Initial Gross Weight: 28.929 g



Residual Solvents - FL (CBD)

Specimen Weight: 13.200 mg

Dilution Factor: 1.000

Passed
(GCMS)

Analyte	LOQ (ppm)	Action Level (ppm)	Result (ppm)	Analyte	LOQ (ppm)	Action Level (ppm)	Result (ppm)
Acetone	2.08	5000	<LOQ	Benzene	0.02	2	<LOQ
Butanes	2.5	2000	<LOQ	Ethanol	2.78	5000	16.094
Ethyl Acetate	1.11	5000	<LOQ	Heptane	1.39	5000	<LOQ
Hexane	1.17	290	<LOQ	Isopropyl alcohol	1.39	500	<LOQ
Methanol	0.69	3000	<LOQ	Pentane	2.08	5000	34.978
Propane	5.83	2100	<LOQ	Toluene	2.92	890	<LOQ
Total Xylenes	2.92	2170	<LOQ				



Pathogenic Microbiology SAE (MicroArray)

Specimen Weight: 1038.300 mg

Dilution Factor: 1.000

Passed
(Micro Array)

Analyte	Result (cfu/g)	Analyte	Result (cfu/g)
Aspergillus flavus	Absence in 1g	Aspergillus fumigatus	Absence in 1g
Aspergillus niger	Absence in 1g	Aspergillus terreus	Absence in 1g
Salmonella	Absence in 1g	STEC E. Coli	Absence in 1g

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Listeria Monocytogenes **Passed**
(qPCR)
Specimen Weight: 979.800 mg
Dilution Factor: 1.000

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

Vitamin E (Tocopheryl Acetate) **Tested**
(LC-MS)
Specimen Weight: 190.200 mg
Dilution Factor: 7.886

Analyte	Result (ppb)
Vitamin E Acetate	<LOQ

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