



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

# Certificate of Analysis

## Compliance Test

**FOUR WINDS FARM LLC**  
2312 ALPINE AVE NW  
HOMESTEAD, IA 52236

Batch # 22001301  
Batch Date: 2022-06-01  
Extracted From: hemp

Sampling Method: MSP 7.3.1  
Test Reg State: Florida

Production Facility: Partnered Process LLC  
Production Date: 2022-06-01

Lab Note: Changed Batch Number on Report

Order # FOU220629-010001  
Order Date: 2022-06-29  
Sample # AADB084

Sampling Date: 2022-07-01  
Lab Batch Date: 2022-07-01  
Completion Date: 2022-07-07

Initial Gross Weight: 68.582 g  
Density: 0.973 g/ml



Product Image

Potency Tested	Heavy Metals Passed	Mycotoxins Passed	Pesticides Passed	Residual Solvents Passed
Moisture Tested	Water Activity Tested	Pathogenic Microbiology Passed	Listeria Monocytogenes Passed	Microbiology Petrifilm Tested

### Potency 10

Specimen Weight: 111.680 mg

Tested

SOP13.001 (LCU)

Analyte	Dilution (1:n)	LOD (%)	LOQ (%)	Result (mg/ml)	(%)
CBG	1000.000	2.48E-4	0.002	71.160	7.313
Delta-9 THC	1000.000	1.30E-5	0.002	0.750	0.077
CBC	1000.000	1.80E-5	0.002	<LOQ	<LOQ
CBD	1000.000	5.40E-5	0.002	<LOQ	<LOQ
THCA	1000.000	3.20E-5	0.002	<LOQ	<LOQ
CBN	1000.000	1.40E-5	0.002	<LOQ	<LOQ
CBGA	1000.000	8.00E-5	0.002	<LOQ	<LOQ
CBDV	1000.000	6.50E-5	0.002	<LOQ	<LOQ
CBDA	1000.000	1.00E-5	0.002	<LOQ	<LOQ
THCV	1000.000	7.00E-6	0.002	<LOQ	<LOQ

### Potency Summary

Total THC 0.077%	Total CBD None Detected
Total CBG 7.313%	Total CBN None Detected
Other Cannabinoids None Detected	Total Cannabinoids 7.390%

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



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## Pesticides FL V4

Specimen Weight: 259.460 mg

Passed

SOP13.007 (LCMS/GCMS)

Dilution Factor: 5.780

Analyte	LOD (ppb)	LOQ (ppb)	Action Level (ppb)	Result	Analyte	LOD (ppb)	LOQ (ppb)	Action Level (ppb)	Result
Abamectin	2.8800E-1	28.23	300	<LOQ	Fludioxonil	1.7400E+0	48	3000	<LOQ
Acephate	2.3000E-2	30	3000	<LOQ	Hexythiazox	4.9000E-2	30	2000	<LOQ
Acequinocyl	9.5640E+0	48	2000	<LOQ	Imazail	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
Ethoprophos	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					

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Sample # AADB084

Sampling Date: 2022-07-01  
Lab Batch Date: 2022-07-01  
Completion Date: 2022-07-07

Initial Gross Weight: 68.582 g  
Density: 0.973 g/ml

**Residual Solvents - FL (CBD)** **Passed**  
SOP13.039 (GCMS)

Specimen Weight: 240.400 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					

**Mycotoxins** **Passed**  
SOP13.007 (LCMS) **Heavy Metals** **Passed**  
SOP13.048 (ICP-MS)

Specimen Weight: 259.460 mg

Specimen Weight: 252.470 mg

Dilution Factor: 5.780

Dilution Factor: 198

Analyte	LOD (ppb)	LOQ (ppb)	Action Level (ppb)	Result (ppb)	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	Arsenic (As)	4.83	100	1500	<LOQ
Aflatoxin B2	7.7000E-2	6	20	<LOQ	Ochratoxin A	7.5400E-1	12	20	<LOQ	Cadmium (Cd)	.64	100	500	<LOQ
Aflatoxin G1	3.0400E-1	6	20	<LOQ						Lead (Pb)	11.76	100	500	<LOQ
										Mercury (Hg)	.58	100	3000	<LOQ

**Pathogenic Microbiology SAE (MicroArray)** **Passed**  
SOP13.019 (Micro Array) **Microbiology (Petrifilm/Plating)** **Tested**  
SOP13.003 (Petrifilm)

Specimen Weight: 1009.570 mg

Specimen Weight: 995.690 mg

Dilution Factor: 1.000

Dilution Factor: 1.000

Analyte	Result (cfu/g)	Analyte	Result (cfu/g)	Analyte	LOQ (cfu/g)	Result (cfu/g)	Analyte	LOQ (cfu/g)	Result (cfu/g)
Aspergillus flavus	Absence in 1g	Aspergillus terreus	Absence in 1g	Aerobic Bacteria	10	<10	Yeast/Mold	10	<10
Aspergillus fumigatus	Absence in 1g	Salmonella	Absence in 1g	E. Coli / Coliform	10	<10			
Aspergillus niger	Absence in 1g	STEC E. Coli	Absence in 1g						

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## Water Activity

Specimen Weight: 0.500 g

**Tested**  
SOP13.016 (Water  
Activity Analyzer)

Dilution Factor: 1.000

Analyte	Action Level (aw)	Result (aw)
Water Activity	0.85	0.458

## Listeria Monocytogenes

Specimen Weight: 1012.690 mg

**Passed**  
SOP13.010 (qPCR)

Dilution Factor: 1.000

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

## Moisture

Specimen Weight: N/A Dilution Factor: 1.000

**Tested**  
SOP13.015  
(Moisture Meter)

Analyte	Action Level (%)	Result (%)
Moisture	15	2.170

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