



**Certificate of Analysis**  
Compliance Test

Client Information:

Frontier cbds

528 E Pioneer Ave  
Homer, Alaska 99603

Batch # 0001  
Batch Date: 2024-09-12  
Extracted From: 5/24

Test Reg State: Alaska

Production Facility: Frontier homer  
Production Date: 2024-09-10

Order # FRO240918-060001  
Order Date: 2024-09-18  
Sample # AAFZ031

Sampling Date: 2024-09-24  
Lab Batch Date: 2024-09-24  
Completion Date: 2024-09-30

Initial Gross Weight: 130.100 g

Number of Units: 1  
Net Weight per Unit: 6466.667 mg  
Sampling Method: MSP 7.3.1



Product Image



**Potency**  
Tested



**Heavy Metals**  
Passed



**Mycotoxins**  
Passed



**Pesticides**  
Passed



**Residual Solvents**  
Passed



**Pathogenic Microbiology**  
Passed



**Microbiology (qPCR)**  
Passed

**Potency 10**

Specimen Weight: 1527.000 mg

**Tested**

SOP13.001 (LCUV)



**Potency Summary**

Total Active THC None Detected	Total Active CBD 0.948% 61.304 mg
Total CBG None Detected	Total CBN 0.276% 17.848 mg
Total Cannabinoids 1.224% 79.152 mg	

Pieces For Panel: 15

Analyte	Dilution (1:n)	LOD (%)	LOQ (%)	Result (mg/g)	(%)
CBD	10.000	5.40E-5	0.015	9.480	0.948
CBN	10.000	1.40E-5	0.015	2.760	0.276
CBC	10.000	1.80E-5	0.015	<LOQ	<LOQ
CBDA	10.000	1.00E-5	0.015	<LOQ	<LOQ
CBDV	10.000	6.50E-5	0.015	<LOQ	<LOQ
CBG	10.000	2.48E-4	0.015	<LOQ	<LOQ
CBGA	10.000	8.00E-5	0.015	<LOQ	<LOQ
Delta-9 THC	10.000	1.30E-5	0.015	<LOQ	<LOQ
THCA-A	10.000	3.20E-5	0.015	<LOQ	<LOQ
THCV	10.000	7.00E-6	0.015	<LOQ	<LOQ
Total Active CBD	10.000			9.480	0.948
Total Active THC	10.000			<LOQ	<LOQ

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



Definitions and Abbreviations used in this report: Total Active CBD = CBD + (CBD-A \* 0.877), \*Total CBDV = CBDV + (CBDVA \* 0.867), Total Active THC = THCA-A \* 0.877 + Delta 9 THC, Total THC = THCV + (THCVA \* 0.87), CBG Total = (CBGA \* 0.878) + CBG, CBN Total = (CBNA \* 0.876) + CBN, Total CBC = CBC + (CBCA \* 0.877), Total THC-O-Acetate = Delta 8 THC-O-Acetate + Delta 9 THC-O-Acetate, Total THCP = Delta8-THCP + Delta9-THCP, Total Cannabinoids = Total percentage of cannabinoids within the sample. (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, (µg/g) = Microgram per Gram, (ppm) = Parts per Million, (ppm) = (µg/g), (aw) = Water Activity, (mg/Kg) = Milligram per Kilogram. ACS uses simple acceptance criteria. Passed - Analyte/microbe is not detected or is at the level below the action limit per AK rule 11 AAC Ch40. Failed - Analyte/microbe is at the level that equal or above the action limit per AK rule 11 AAC Ch40 Sample not received via laboratory sampling.

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**PCR Total Yeast and Mold**  
Specimen Weight: 485.600 mg

**Passed**  
SOP13.017 (qPCR)

**Pathogenic Microbiology SAE**  
(MicroArray)

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

Dilution Factor: 8.000

Analyte	Action Level (cfu/g)	LOQ (cfu/g)	Result (cfu/g)
Total Yeast/Mold	100000	1000	<LOQ
Prep. By: 1161	Date: 2024-09-25 10:46:07	Analyzed By: 1161	Date: 2024-09-25 10:46:07
Reviewed By: 1161	Date: 2024-09-25 17:16:15	Lab Batch #: AAFZ031-218	Date: 2024-09-25 17:16:15

Specimen Weight: 1036.900 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

*Aixia Sun*  
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**Heavy Metals**

Specimen Weight: 253.200 mg

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

Dilution Factor: 197

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



**Mycotoxins**

Specimen Weight: 588.200 mg

**Passed**  
SOP13.007 (LCMS)

Dilution Factor: 2.550

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	3.8	20	<LOQ
Aflatoxin G1	3.0400E-1	6	20	<LOQ					



**Pesticides - FL (AK)**

Specimen Weight: 588.200 mg

**Passed**  
SOP13.007 (LCMS/GCMS)

Dilution Factor: 2.550

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	70	<LOQ	Malathion	8.2000E-2	30	50	<LOQ
Azoxystrobin	8.1000E-2	10	20	<LOQ	Myclobutanil	1.0290E+0	30	40	<LOQ
Bifenazate	1.4150E+0	30	20	<LOQ	Permethrin	3.4300E-1	30	40	<LOQ
Etoazole	9.5000E-2	30	10	<LOQ	Spinosad	8.8000E-2	30	60	<LOQ
Imazalil	2.4800E-1	30	40	<LOQ	Spiromesifen	2.6100E-1	30	30	<LOQ
Imidacloprid	9.4000E-2	30	20	<LOQ	Tebuconazole	6.7000E-2	30	10	<LOQ

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**Residual Solvents - FL (CBD)**

Specimen Weight: 15.600 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	25.664	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					

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