



Certificate of Analysis
Compliance Test

Client Information:

Frontier cbds

528 E Pioneer Ave
Homer, Alaska 99603

Batch # 001
Batch Date: 2024-10-01
Extracted From: Co2

Test Reg State: Alaska

Production Facility: Homer
Production Date: 2024-10-01

Order # FRO241006-120001
Order Date: 2024-10-06
Sample # AAGA217

Sampling Date: 2024-10-07
Lab Batch Date: 2024-10-07
Completion Date: 2024-10-16

Initial Gross Weight: 60.225 g

Number of Units: 1
Net Weight per Unit: 15300.000 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: 1501.400 mg

Tested
SOP13.001 (LCUV)



Potency Summary

Total Active THC None Detected	Total Active CBD 82.314 mg
Total CBG None Detected	Total CBN None Detected
Total Cannabinoids 0.538% 82.314 mg	

Pieces For Panel: 5

Analyte	Dilution (1:n)	LOD (%)	LOQ (%)	Result (mg/g)	(%)
CBD	10.000	5.40E-5	0.015	5.380	0.538
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
CBN	10.000	1.40E-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			5.380	0.538
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 = THC + (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.

This report shall not be reproduced, without written approval, from ACS Laboratory. The results of this report relate only to the material or product analyzed. Test results are confidential unless explicitly waived otherwise. ACS Laboratory is accredited to the ISO/IEC 17025:2017 Standard.





Certificate of Analysis
Compliance Test

Client Information:

Frontier cbds

528 E Pioneer Ave
Homer, Alaska 99603

Batch # 001
Batch Date: 2024-10-01
Extracted From: Co2

Test Reg State: Alaska

Production Facility: Homer
Production Date: 2024-10-01

Order # FRO241006-120001
Order Date: 2024-10-06
Sample # AAGA217

Sampling Date: 2024-10-07
Lab Batch Date: 2024-10-07
Completion Date: 2024-10-16

Initial Gross Weight: 60.225 g

Number of Units: 1
Net Weight per Unit: 15300.000 mg
Sampling Method: MSP 7.3.1

PCR Total Yeast and Mold
Specimen Weight: 504.200 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: 1179	Date: 2024-10-08 07:22:37	Analyzed By: 1179	Date: 2024-10-08 07:22:37
Reviewed By: 1142	Date: 2024-10-08 11:24:27	Lab Batch #: AAGA217-218	Date: 2024-10-08 11:24:27

Specimen Weight: 1007.900 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
Aixia Sun Lab Director/Principal Scientist
D.H.Sc., M.Sc., B.Sc., MT (AAB)

Definitions are found on page 1

This report shall not be reproduced, without written approval, from ACS Laboratory. The results of this report relate only to the material or product analyzed. Test results are confidential unless explicitly waived otherwise. ACS Laboratory is accredited to the ISO/IEC 17025:2017 Standard.





Certificate of Analysis
Compliance Test

Client Information:

Frontier cbds

528 E Pioneer Ave
Homer, Alaska 99603

Batch # 001
Batch Date: 2024-10-01
Extracted From: Co2

Test Reg State: Alaska

Production Facility: Homer
Production Date: 2024-10-01

Order # FRO241006-120001
Order Date: 2024-10-06
Sample # AAGA217

Sampling Date: 2024-10-07
Lab Batch Date: 2024-10-07
Completion Date: 2024-10-16

Initial Gross Weight: 60.225 g

Number of Units: 1
Net Weight per Unit: 15300.000 mg
Sampling Method: MSP 7.3.1



Heavy Metals

Specimen Weight: 251.000 mg

Passed
SOP13.048 (ICP-MS)

Dilution Factor: 199

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: 595.600 mg

Passed
SOP13.007 (LCMS)

Dilution Factor: 2.520

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: 595.600 mg

Passed
SOP13.007 (LCMS/GCMS)

Dilution Factor: 2.520

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

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

Definitions are found on page 1

This report shall not be reproduced, without written approval, from ACS Laboratory. The results of this report relate only to the material or product analyzed. Test results are confidential unless explicitly waived otherwise. ACS Laboratory is accredited to the ISO/IEC 17025:2017 Standard.





Certificate of Analysis
Compliance Test

Client Information:

Frontier cbds

**528 E Pioneer Ave
Homer, Alaska 99603**

Order # FRO241006-120001
Order Date: 2024-10-06
Sample # AAGA217

Batch # 001
Batch Date: 2024-10-01
Extracted From: Co2

Test Reg State: Alaska

Production Facility: Homer
Production Date: 2024-10-01

Sampling Date: 2024-10-07
Lab Batch Date: 2024-10-07
Completion Date: 2024-10-16

Initial Gross Weight: 60.225 g

Number of Units: 1
Net Weight per Unit: 15300.000 mg
Sampling Method: MSP 7.3.1



Residual Solvents - FL (CBD)

Specimen Weight: 15.500 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	6.724
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	50.408	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					

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

Definitions are found on page 1

This report shall not be reproduced, without written approval, from ACS Laboratory. The results of this report relate only to the material or product analyzed. Test results are confidential unless explicitly waived otherwise. ACS Laboratory is accredited to the ISO/IEC 17025:2017 Standard.

