



Certificate of Analysis

R&D

Client Information:

CLOUD CO. FARMS
PO BOX 681
ALAMOSA, CO 81101

Batch # CCF12272023D210
Batch Date: 2023-12-27
Extracted From: 104346

Test Reg State: Florida

Order # CLO240110-350001
Order Date: 2024-01-10
Sample # AAFE844

Sampling Date: 2024-01-16
Lab Batch Date: 2024-01-16
Completion Date: 2024-02-08

Initial Gross Weight: 55.300 g

Stability and Shelf Life
Type: Accelerated - Day: 14 - Test: 3



Product Image

Potency Tested	Terpenes Tested	Heavy Metals Passed	Mycotoxins Passed	Residual Solvents Passed
Water Activity Tested	Pathogenic Microbiology Passed	Microbiology (qPCR) Passed	pH Level Tested	

Potency 10

Specimen Weight: 505.610 mg

Tested

SOP13.001 (LCUV)

Analyte	Dilution (1:n)	LOD (%)	LOQ (%)	Result (mg/g)	Result (%)
CBD	50.000	5.40E-5	0.015	838.180	83.818
Delta-9 THC	50.000	1.30E-5	0.015	28.050	2.805
CBG	50.000	2.48E-4	0.015	26.570	2.657
CBDV	50.000	6.50E-5	0.015	21.300	2.130
CBC	50.000	1.80E-5	0.015	17.370	1.737
CBN	50.000	1.40E-5	0.015	1.340	0.134
THCV	50.000	7.00E-6	0.015	1.120	0.112
CBDA	50.000	1.00E-5	0.015	<LOQ	<LOQ
CBGA	50.000	8.00E-5	0.015	<LOQ	<LOQ
THCA-A	50.000	3.20E-5	0.015	<LOQ	<LOQ
Total Active CBD	50.000			838.180	83.818
Total Active THC	50.000			28.050	2.805

Potency Summary

Total Active THC 2.805%	Total Active CBD 83.818%
Total CBG 2.657%	Total CBN 0.134%
Other Cannabinoids 3.979%	Total Cannabinoids 93.393%

Terpenes Summary

Analyte	Result (mg/g)	(%)
alpha-Bisabolol	1.034	0.103%
Caryophyllene oxide	0.357	0.036%
Guaiol	0.167	0.017%

Total Terpenes: 0.156%

Detailed Terpenes Analysis is on the following page

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Aixia Sun Lab Director/Principal Scientist
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Definitions and Abbreviations used in this report: Total Active CBD = CBD + (CBD-A * 0.877), *Total CBDV = CBDV + (CBDVA * 0.87), Total Active THC = THCA-A * 0.877 + Delta 9 THC, Total THC = THCV + (THCVA * 0.87), CBG Total = (CBGA * 0.877) + CBG, CBN Total = (CBNA * 0.877) + 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, Other Cannabinoids Total = Total Cannabinoids - All the listed cannabinoids on the summary section, Total Detected Cannabinoids = Delta6a10a-THC + Delta8-THC + Total CBN + CBT + CBE + Delta8-THCV + Total CBG + Total CBD + Total THCV + CBL + Total THC + Total CBC + Total CBDV + Delta10-THC + Total THC-O-Acetate + Total THCP. (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 FL rule 64ER20-39, 5K-4.036, 5K-4.034. Failed - Analyte/microbe is at the level that equal or above the action limit per FL rule 64ER20-39, 5K-4.036, 5K-4.034 Sample not received via laboratory sampling.

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Terpenes

Specimen Weight: 505.610 mg

Tested
SOP13.045 (GC/GCMS)

Dilution Factor: 20.000

Analyte	LOQ (%)	Result (mg/g)	(%)	Analyte	LOQ (%)	Result (mg/g)	(%)
alpha-Bisabolol	0.002	1.034	0.103	Fenchone	0.002	<LOQ	
Caryophyllene oxide	0.002	0.357	0.036	Fenchyl Alcohol	0.002	<LOQ	
Guaiol	0.002	0.167	0.017	Gamma-Terpinene	0.002	<LOQ	
(+)-Cedrol	0.002	<LOQ		Geraniol	0.002	<LOQ	
(R)-(+)-Limonene	0.002	<LOQ		Geranyl acetate	0.002	<LOQ	
3-Carene	0.002	<LOQ		Hexahydrothymol	0.002	<LOQ	
alpha-Cedrene	0.002	<LOQ		Isoborneol	0.002	<LOQ	
alpha-Humulene	0.002	<LOQ		Isopulegol	0.002	<LOQ	
alpha-Phellandrene	0.002	<LOQ		Linalool	0.002	<LOQ	
alpha-Pinene	0.002	<LOQ		Nerol	0.002	<LOQ	
alpha-Terpinene	0.002	<LOQ		Ocimene	0.00033	<LOQ	
beta-Myrcene	0.002	<LOQ		Pulegone	0.002	<LOQ	
beta-Pinene	0.002	<LOQ		Sabinene	0.002	<LOQ	
Borneol	0.004	<LOQ		Sabinene Hydrate	0.002	<LOQ	
Camphene	0.002	<LOQ		Terpinolene	0.002	<LOQ	
Camphors	0.006	<LOQ		Total Terpeneol	0.00126	<LOQ	
cis-Nerolidol	0.002	<LOQ		trans-Caryophyllene	0.002	<LOQ	
Eucalyptol	0.002	<LOQ		trans-Nerolidol	0.002	<LOQ	
Farnesene	0.002	<LOQ		Valencene	0.002	<LOQ	



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	0.448



Total Yeast and Mold

Specimen Weight: 482.500 mg

Passed
SOP13.017 (qPCR)

Dilution Factor: 1.000

Analyte	Action Level (cfu/g)	Result (cfu/g)	Remark
Total Yeast/Mold	100000	<LOQ	Passed

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Definitions are found on page 1

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pH Level

Specimen Weight: N/A Dilution Factor: 1.000

Analyte
pH Level

Tested

SOP13.037 (pH Meter)

Result
(pH)
5.0



**Pathogenic Microbiology SAE
(MicroArray)**

Specimen Weight: 1035.000 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

Passed

SOP13.019
(Micro Array)

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Mycotoxins - CO
Specimen Weight: 595.700 mg

Passed
SOP14.003 (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	3.7250E-1	2.5	5	<LOQ	Ochratoxin A	1.8997E-1	3.5	5	<LOQ
Aflatoxin Total		2.5	20	<LOQ					

Heavy Metals
Specimen Weight: 246.500 mg

Passed
SOP13.048 (ICP-MS)

Dilution Factor: 202

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

Residual Solvents - FL/UT (BHB)
Specimen Weight: 51.000 mg

Passed
SOP13.056,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		0.16	8	<LOQ	Ethyl Acetate	1.11	5000	<LOQ	<LOQ
1,2-Dimethoxyethane		0.04	100	<LOQ	Ethyl Ether	1.39	5000	<LOQ	<LOQ
1,2-Dichloroethane		1.67	2	<LOQ	Ethylene glycol	1.67	620	<LOQ	<LOQ
1,4-Dioxane		1.67	380	<LOQ	Ethylene Oxide	0.1	5	<LOQ	<LOQ
1-Butanol		1.67	5000	<LOQ	Heptane	1.67	5000	<LOQ	<LOQ
1-Pentanol		1.67	5000	<LOQ	Hexane	1.17	290	<LOQ	<LOQ
1-Propanol		1.67	5000	<LOQ	Isopropyl acetate	1.67	5000	<LOQ	<LOQ
2,2-dimethylbutane		1.67	290	<LOQ	Isopropyl alcohol	1.67	5000	<LOQ	<LOQ
2,3-dimethylbutane		1.67	290	<LOQ	Isopropyl alcohol	1.67	500	<LOQ	<LOQ
2-Butanol		1.67	5000	<LOQ	Methanol	0.69	3000	<LOQ	<LOQ
2-Butanone		6.4	5000	<LOQ	Methylene chloride	1.67	600	<LOQ	<LOQ
2-Ethoxyethanol		1.67	160	<LOQ	Methylene chloride	2.43	600	<LOQ	<LOQ
2-methylbutane		1.67	5000	<LOQ	Methylpropane	1.67	5000	<LOQ	<LOQ
2-Methylpentane		1.67	290	<LOQ	N,N-dimethylacetamide	1.67	1090	<LOQ	<LOQ
3-Methylpentane		1.67	290	<LOQ	N,N-dimethylformamide	1.67	880	<LOQ	<LOQ
Acetone		1.67	5000	<LOQ	Pentane	1.67	5000	<LOQ	<LOQ
Acetonitrile		0.02	410	<LOQ	Propane	1.67	2100	<LOQ	<LOQ
Benzene		1.67	2	<LOQ	Pyridine	1.67	100	<LOQ	<LOQ
Butane		1.67	2000	<LOQ	Sulfolane	1.67	160	<LOQ	<LOQ
Chloroform		0.04	60	<LOQ	Tetrahydrofuran	1.67	720	<LOQ	<LOQ
Cumene		1.67	70	<LOQ	Toluene	1.67	890	<LOQ	<LOQ
Cyclohexane		1.67	3880	<LOQ	Total Xylenes	1.67	1000	<LOQ	<LOQ
Dimethyl sulfoxide		1.67	5000	<LOQ	Trichloroethylene	0.49	80	<LOQ	<LOQ
Ethanol		1.67	NA	<LOQ					

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