



# Certificate of Analysis

R&D

**Client Information:**

**Montana Extraction Company LLC**  
610 Blacktail Rd  
Lakeside, Montana 59922

Batch # 003  
Batch Date: 2023-03-06  
Extracted From: 3-1-23

Test Reg State: Florida

Order # MON230306-030001  
Order Date: 2023-03-06  
Sample # AAEE317

Sampling Date: 2023-03-09  
Lab Batch Date: 2023-03-09  
Completion Date: 2023-03-16

Initial Gross Weight: 5.877 g



Product Image



**Terpenes Tested**



**Flavonoids Tested**

**Terpenes**  
Specimen Weight: 42.600 mg

Dilution Factor: 2000.000

Analyte	LOQ (%)	Result (mg/g)	(%)
beta-Pinene	0.002	342.270	34.227
trans-Caryophyllene	0.002	171.800	17.180
alpha-Pinene	0.002	144.980	14.498
(R)-(+)-Limonene	0.002	69.690	6.969
beta-Myrcene	0.002	66.700	6.670
alpha-Humulene	0.002	54.910	5.491
Valencene	0.002	15.200	1.520
Fenchyl Alcohol	0.002	14.220	1.422
Ocimene	0.00033	7.620	0.762
Camphene	0.002	5.990	0.599
Eucalyptol	0.002	5.830	0.583
Guaiol	0.002	2.680	0.268
Caryophyllene oxide	0.002	2.620	0.262
Gamma-Terpinene	0.002	2.470	0.247
alpha-Terpinene	0.002	1.940	0.194
alpha-Phellandrene	0.002	1.600	0.160
Linalool	0.002	1.230	0.123
Terpinolene	0.002	1.070	0.107
Sabinene Hydrate	0.002	0.930	0.093

**Total Terpenes: 91.375%**

**Tested**  
SOP13.045 (GC/GCMS)

Analyte	LOQ (%)	Result (mg/g)	(%)
(+)-Cedrol	0.002	<LOQ	
3-Carene	0.002	<LOQ	
alpha-Bisabolol	0.002	<LOQ	
alpha-Cedrene	0.002	<LOQ	
Borneol	0.004	<LOQ	
Camphors	0.006	<LOQ	
cis-Nerolidol	0.002	<LOQ	
Farnesene	0.002	<LOQ	
Fenchone	0.002	<LOQ	
Geraniol	0.002	<LOQ	
Geranyl acetate	0.002	<LOQ	
Hexahydrothymol	0.002	<LOQ	
Isoborneol	0.002	<LOQ	
Isopulegol	0.002	<LOQ	
Nerol	0.002	<LOQ	
Pulegone	0.002	<LOQ	
Sabinene	0.002	<LOQ	
Total Terpeneol	0.00126	<LOQ	
trans-Nerolidol	0.002	<LOQ	

**Terpenes Summary**

Analyte	Result (mg/g)	(%)
beta-Pinene	342.27	34.227%
trans-Caryophyllene	171.8	17.18%
alpha-Pinene	144.98	14.498%
(R)-(+)-Limonene	69.69	6.969%
beta-Myrcene	66.7	6.67%
alpha-Humulene	54.91	5.491%
Valencene	15.2	1.52%
Fenchyl Alcohol	14.22	1.422%
Ocimene	7.62	0.762%
Camphene	5.99	0.599%
Eucalyptol	5.83	0.583%
Guaiol	2.68	0.268%
Caryophyllene oxide	2.62	0.262%
Gamma-Terpinene	2.47	0.247%
alpha-Terpinene	1.94	0.194%
alpha-Phellandrene	1.6	0.16%
Linalool	1.23	0.123%
Terpinolene	1.07	0.107%
Sabinene Hydrate	0.93	0.093%

**Total Terpenes: 91.375%**

Detailed Terpenes Analysis is on the following page



**Flavonoids Summary**

Analyte	Result (ppm)
---------	--------------

**Total Flavonoids: 0.000ppm**

Detailed Flavonoids Analysis is on one of the following pages

*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 \* 0.87), Total Active THC = THCA-A \* 0.877 + Delta 9 THC, Total THC = THC + (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 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 (cfu/g) = Colony Forming Unit per Gram, LOD = Limit of Detection, (µg/g) = Microgram per Gram (ppm) = Parts per Million, (ppm) = (µg/g), (aw) = aw (area ratio) = Area Ratio, (mg/Kg) = Milligram per Kilogram, Passed - Analyte/microbe is non-detected or at the level below the action limit, Failed - Analyte/microbe is at the level that equal or above the action limit

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**

R&D

**Client Information:**

**Montana Extraction Company LLC**  
610 Blacktail Rd  
Lakeside, Montana 59922

Batch # 003  
Batch Date: 2023-03-06  
Extracted From: 3-1-23

Test Reg State: Florida

Order # MON230306-030001  
Order Date: 2023-03-06  
Sample # AAEE317

Sampling Date: 2023-03-09  
Lab Batch Date: 2023-03-09  
Completion Date: 2023-03-16

Initial Gross Weight: 5.877 g

**Flavonoids**  
Specimen Weight: 21.000 mg

**Tested**  
SOP13.011  
(LCMS)

Dilution Factor: 10.000

Analyte	Dilution (1:n)	LOQ (ppm)	Result (ppm)	Analyte	Dilution (1:n)	LOQ (ppm)	Result (ppm)
Apigenin	0.100	4	<LOQ	Kaempferol	0.100	1	<LOQ
Baicalin	0.100	8	<LOQ	Luteolin	0.100	2.5	<LOQ
beta sitosterol	0.100	5	<LOQ	Orientin	0.100	5	<LOQ
Cannflavin A	0.100	3.91	<LOQ	Pelargonidin-3-O-glucoside	0.100	11.56	<LOQ
Cannflavin B	0.100	4.84	<LOQ	Quercetin	0.100	2.23	<LOQ
Cannflavin C	0.100	2.36	<LOQ	Rutin	0.100	7.81	<LOQ
Chrysin	0.100	2.5	<LOQ	Vitexin	0.100	4	<LOQ
Fisetin	0.100	5	<LOQ	Wogonin	0.100	0.5	<LOQ

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 \* 0.87), 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 (cfu/g) = Colony Forming Unit per Gram, , LOD = Limit of Detection, (µg/g) = Microgram per Gram (ppm) = Parts per Million, (ppm) = (µg/g), (aw) = aw (area ratio) = Area Ratio, (mg/Kg) = Milligram per Kilogram, Passed - Analyte/microbe is non-detected or at the level below the action limit, Failed - Analyte/microbe is at the level that equal or above the action limit

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.