



**Certificate of Analysis**

R&D

Client Information:

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

Batch # 001  
Batch Date: 2023-03-06  
Extracted From: 3-1-23

Test Reg State: Florida

Production Facility: Montana Extraction Company  
Production Date: 2023-03-06

Order # MON230306-030001  
Order Date: 2023-03-06  
Sample # AAEE315

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

Initial Gross Weight: 5.916 g



Product Image



Terpenes Tested



Flavonoids Tested

**Terpenes**  
Specimen Weight: 41.400 mg

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

Dilution Factor: 2000.000

Analyte	LOQ (%)	Result (mg/g)	(%)
beta-Pinene	0.002	195.110	19.511
trans-Caryophyllene	0.002	159.250	15.925
alpha-Pinene	0.002	120.560	12.056
Terpinolene	0.002	54.990	5.499
alpha-Humulene	0.002	39.190	3.919
(R)-(+)-Limonene	0.002	39.150	3.915
beta-Myrcene	0.002	37.420	3.742
Farnesene	0.002	28.980	2.898
Valencene	0.002	16.550	1.655
Linalool	0.002	12.610	1.261
Fenchyl Alcohol	0.002	11.600	1.160
Eucalyptol	0.002	10.000	1.000
Caryophyllene oxide	0.002	9.520	0.952
Ocimene	0.00033	9.000	0.900
alpha-Phellandrene	0.002	6.760	0.676
Total Terpeneol	0.00126	5.890	0.589
Guaiol	0.002	4.010	0.401
3-Carene	0.002	3.630	0.363
Gamma-Terpinene	0.002	3.380	0.338

Analyte	LOQ (%)	Result (mg/g)	(%)
alpha-Terpinene	0.002	3.030	0.303
Camphene	0.002	2.760	0.276
Isoborneol	0.002	2.130	0.213
Sabinene Hydrate	0.002	1.840	0.184
trans-Nerolidol	0.002	1.820	0.182
alpha-Bisabolol	0.002	1.810	0.181
Sabinene	0.002	1.210	0.121
(+)-Cedrol	0.002	<LOQ	
alpha-Cedrene	0.002	<LOQ	
Borneol	0.004	<LOQ	
Camphors	0.006	<LOQ	
cis-Nerolidol	0.002	<LOQ	
Fenchone	0.002	<LOQ	
Geraniol	0.002	<LOQ	
Geranyl acetate	0.002	<LOQ	
Hexahydrothymol	0.002	<LOQ	
Isopulegol	0.002	<LOQ	
Nerol	0.002	<LOQ	
Pulegone	0.002	<LOQ	

**Terpenes Summary**

Analyte	Result (mg/g)	(%)
beta-Pinene	195.11	19.511%
trans-Caryophyllene	159.25	15.925%
alpha-Pinene	120.56	12.056%
Terpinolene	54.99	5.499%
alpha-Humulene	39.19	3.919%
(R)-(+)-Limonene	39.15	3.915%
beta-Myrcene	37.42	3.742%
Farnesene	28.98	2.898%
Valencene	16.55	1.655%
Linalool	12.61	1.261%
Fenchyl Alcohol	11.6	1.16%
Eucalyptol	10	1%
Caryophyllene oxide	9.52	0.952%
Ocimene	9	0.9%
alpha-Phellandrene	6.76	0.676%
Total Terpeneol	5.89	0.589%
Guaiol	4.01	0.401%
3-Carene	3.63	0.363%
Gamma-Terpinene	3.38	0.338%
alpha-Terpinene	3.03	0.303%
Camphene	2.76	0.276%
Isoborneol	2.13	0.213%
Sabinene Hydrate	1.84	0.184%
trans-Nerolidol	1.82	0.182%
alpha-Bisabolol	1.81	0.181%
Sabinene	1.21	0.121%

**Total Terpenes: 78.220%**

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Detailed Terpenes Analysis is on the following page



**Flavonoids Summary**

Analyte	Result (ppm)
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**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 + 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

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Test Reg State: Florida

Production Facility: Montana Extraction Company  
Production Date: 2023-03-06

Order # MON230306-030001  
Order Date: 2023-03-06  
Sample # AAEE315

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

Initial Gross Weight: 5.916 g

**Flavonoids**  
Specimen Weight: 19.200 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)



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