



Montana Pure, LLC

PO BOX 9953
Kalispel, MT 59904
info@montanapurebotanicals.com
(800) 864-5425
Lic. #

Sample: 2003FID0833.5032

Strain: Merlot
Batch #: ; Lot #: G1-19
METRC Batch: ; METRC Sample:
Analysis Initiated: 03/30/2020; Report Created: 04/21/2020
Sampling SOP: SOP-0050

Full Spectrum Hemp Oil

Concentrates & Extracts, Other, CO2
Harvest/Production Date:



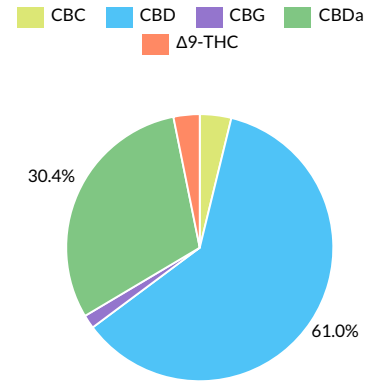
	1.82 mg/mL Total Potential Psychoactive THC	50.47 mg/mL Total CBD	Pass Foreign Matter
	1.82 mg/mL Total Raw THC	57.59 mg/mL Total Cannabinoids	Complete NR Moisture

Cannabinoids

Complete

Analytical Calibration Batch: Cannabinoids AF 03172020

Analyte	LOQ mg/mL	Mass mg/mL	Mass mg/g
THCa	0.79	<LOQ	<LOQ
Δ9-THC	0.79	1.82	1.97
Δ8-THC	0.79	ND	ND
THCV	0.79	<LOQ	<LOQ
CBDa	0.79	17.49	18.93
CBD	0.79	35.13	38.02
CBN	0.79	ND	ND
CBGa	0.79	<LOQ	<LOQ
CBG	0.79	0.95	1.03
CBC	0.79	2.20	2.38
Total		57.59	62.33



Total Potential Psychoactive THC = THCa * 0.877 + d9-THC
Total CBD = CBDa * 0.877 + CBD

LOQ = Limit of Quantitation; NT = Not Tested; NR = Not Reported; ND = None Detected; PPM = Parts per Million; PPB = Parts per Billion; The reported result is based on a sample weight with the applicable moisture content for that sample; Unless otherwise stated all quality control samples performed within specifications established by the Laboratory. SOP-0037; Full spectrum cannabinoid analysis utilizing Shimadzu Prominence High Performance Liquid Chromatography with UV detection (HPLC-UV).

SOP-0035; Foreign matter inspection includes but is not limited to hair, insects, stems, and feces. Filth is inspected using a M16-209 stereoscope. Stem measurements are performed using fisher calipers.

SOP-0036; Moisture analysis is performed using a Shimadzu moisture analyzer MOC63u UL.



Fidelity Diagnostics Laboratory
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Andre Umansky
Laboratory Director

Accredited to ISO/IEC 17025:2017
Accreditation #: 102722

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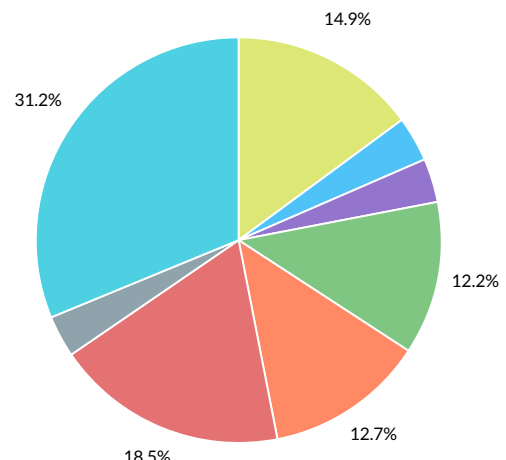


Terpenes

Analytical Calibration Batch: Terpenes 03112020

Analyte	LOQ	Mass	Mass
	%	%	mg/g
β-Caryophyllene	0.008	0.075	0.75
α-Bisabolol	0.008	0.045	0.45
Guaiol	0.008	0.036	0.36
α-Humulene	0.008	0.031	0.31
β-Myrcene	0.008	0.029	0.29
Ocimene	0.008	0.009	0.09
Linalool	0.008	0.008	0.08
trans-Nerolidol	0.008	0.008	0.08
α-Pinene	0.008	ND	ND
α-Terpinene	0.008	ND	ND
β-Pinene	0.008	ND	ND
Camphene	0.008	ND	ND
Caryophyllene Oxide	0.008	<LOQ	<LOQ
cis-Nerolidol	0.008	ND	ND
δ-3-Carene	0.008	ND	ND
δ-Limonene	0.008	<LOQ	<LOQ
Eucalyptol	0.008	ND	ND
γ-Terpinene	0.008	ND	ND
Geraniol	0.008	ND	ND
Isopulegol	0.008	ND	ND
p-Cymene	0.008	ND	ND
Terpinolene	0.008	ND	ND
Total		0.241	2.41

Legend: Guaiol (yellow), Ocimene (blue), Linalool (purple), β-Myrcene (green), α-Humulene (orange), α-Bisabolol (red), trans-Nerolidol (grey), β-Caryophyllene (cyan)



Primary Aromas

Cinnamon

Chamomile

Wood

Hops

Earthy

LOQ = Limit of Quantitation; NT = Not Tested; NR = Not Reported; ND = None Detected; PPM = Parts per Million; PPB = Parts per Billion; The reported result is based on a sample weight with the applicable moisture content for that sample; Unless otherwise stated all quality control samples performed within specifications established by the Laboratory. SOP-0044; Terpenoid profile screen is performed using a Thermo Scientific TRACE 1300 Gas Chromatography instrument equipped with a Flame Ionization Detector (GC-FID).



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Residual Solvents

Analytical Calibration Batch: R.S. 03312020

Pass

Analyte	LOQ	State Limits	Mass	Status	Analyte	LOQ	State Limits	Mass	Status
	PPM	PPM	PPM			PPM	PPM	PPM	
Acetone	400	5000	ND	Pass	Isopropanol	400	5000	ND	Pass
Benzene	2	2	ND	Pass	Methanol	400	3000	ND	Pass
Butane	40	5000	ND	Pass	Methylene-Chloride	20	5000	ND	Pass
Chloroform	2	2	ND	Pass	n-Pentane	20	5000	ND	Pass
Cyclohexane	20	3880	ND	Pass	o-Xylene	20	2170	ND	Pass
Ethyl-Acetate	20	5000	ND	Pass	Propane	40	5000	ND	Pass
Heptane	20	5000	ND	Pass	Toluene	20	890	ND	Pass
Hexanes	20	290	ND	Pass	Xylenes	20	2170	ND	Pass
Isobutane	40	5000	ND	Pass					

LOQ = Limit of Quantitation; The reported result is based on a sample weight with the applicable moisture content for that sample; Unless otherwise stated all quality control samples performed within specifications established by the Laboratory.
SOP-0056; A wide spectrum analysis of Residual Solvents using Gas Chromatography Mass Spectrometry (Thermo Scientific ISQ7000 GCMS).

Mycotoxins

Analytical Calibration Batch: 03232020

Pass

Analyte	LOQ	State Limit	Mass	Status
	PPB	PPB	PPB	
Ochratoxin A	12	20	ND	Pass
Total Aflatoxins	20	20	ND	Pass

LOQ = Limit of Quantitation; The reported result is based on a sample weight with the applicable moisture content for that sample; Unless otherwise stated all quality control samples performed within specifications established by the Laboratory.
SOP-0048; Mycotoxin screening is performed using Sciex 6500+ LCMSMS with Exion XR front HPLC.

Microbials

Pass

Analyte	Limit	Mass	Status
	CFU/g	CFU/g	
Aerobic Bacteria	100000	NR	NT
Bile-Tolerant Gram-Negative Bacteria	10000	NR	NT
E. Coli	1	ND	Pass
Mold	10000	ND	Pass
Salmonella		ND	Pass

LOQ = Limit of Quantitation; TNC = Too Numerous to Count; Unless otherwise stated all quality control samples performed within specifications established by the Laboratory.
SOP-0057; Mold, E.Coli, and Salmonella analysis on AriaDX qPCR using Medicinal Genomics validated methods.
SOP-0061; Mold enumeration using Hardy Diagnostics media.



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Pesticides

Analytical Calibration Batch: 03232020

Pass

Analyte	LOQ	State Limit	Expanded Limit	Mass	Status
	PPM	PPM	PPM	PPM	
Abamectin	0.30	2.5	2.5	ND	Pass
Acequinocyl	0.30	10	10	ND	Pass
Bifenazate	0.30	1	1	ND	Pass
Bifenthrin	0.30	1	1	ND	Pass
Chloromequat	0.30	5	5	ND	Pass
Cyfluthrin	0.30	5	5	ND	Pass
Daminozide	0.30	5	5	ND	Pass
Etoxazole	0.30	1	1	ND	Pass
Fenoxycarb	0.30	1	1	ND	Pass
Imazalil	0.30	1	1	ND	Pass
Imidacloprid	0.30	2	2	ND	Pass
Myclobutanil	0.30	0.6	0.6	ND	Pass
Paclobutrazol	0.30	2	2	ND	Pass
Pyrethrins	0.30	5	5	ND	Pass
Spinosad	0.30	1	1	ND	Pass
Spiromesifen	0.30	1	1	ND	Pass
Spirotetramat	0.30	1	1	ND	Pass
Trifloxystrobin	0.30	1	1	ND	Pass

LOQ = Limit of Quantitation; The reported result is based on a sample weight with the applicable moisture content for that sample; Unless otherwise stated all quality control samples performed within specifications established by the Laboratory.
SOP-0048; Pesticide screening is performed using Sciex 6500+ LCMSMS with Exion XR front HPLC.



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