



Customer: Mountain Flower Botanicals LLC
 Customer Sample ID: Extract Batch 17
 Laboratory Number: 20B0332-01

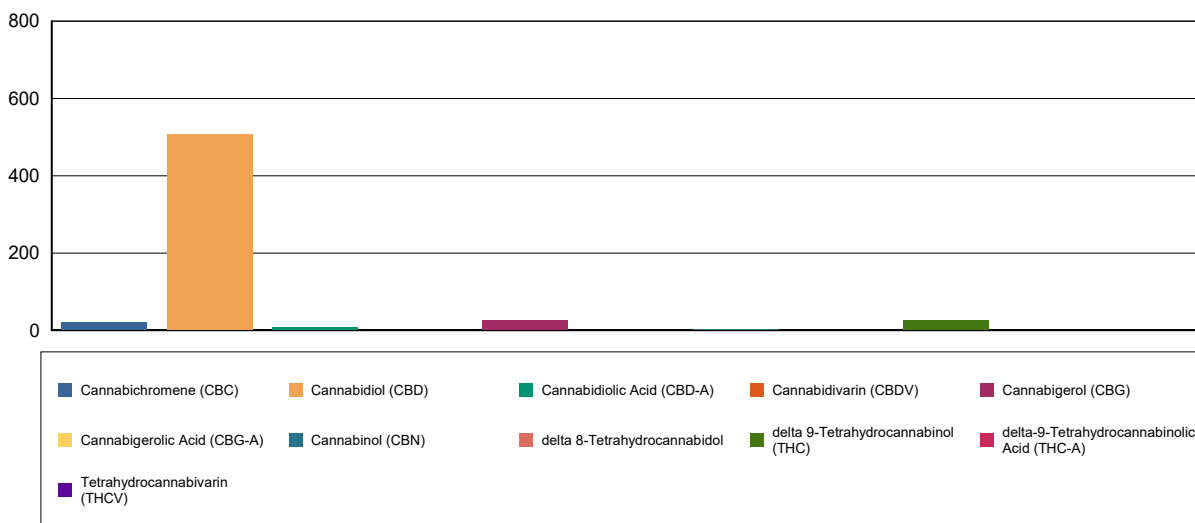
Cannabinoid Profile

Extraction Technician: DF
 Analytical Chemist: CB

Extraction Date(s)	Analysis Date(s)
2/27/2020	2/27/2020

Cannabinoids (HPLC)		Results	
	LOD (mg/g)	%	mg/g
Cannabidiol (CBD)	<0.20		
Cannabidiolic Acid (CBD-A)		0.76	7.57
Cannabigerolic Acid (CBG-A)		0.07	0.686
Cannabigerol (CBG)		2.57	25.7
Cannabidiol (CBD)		50.70	507
Tetrahydrocannabivarin (THCV)	<0.20		
Cannabinol (CBN)		0.22	2.24
delta 9-Tetrahydrocannabinol (THC)		2.59	25.9
delta 8-Tetrahydrocannabinol	<0.20		
Cannabichromene (CBC)		2.11	21.1
delta-9-Tetrahydrocannabinolic Acid (THC-A)	<0.20		
Cannabinoids Total		%	mg/g
Max Active THC		2.59	25.90
Max Active CBD		51.36	513.64
T.Active Cannabinoids		58.20	582.00
Total Cannabinoids		59.00	590.00
Ratios			
19.84:1 CBD to THC		0.05:1 THC to CBD	

Cannabinoid (mg/g)



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Customer: Mountain Flower Botanicals LLC
 Customer Sample ID: Extract Batch 17
 Laboratory Number: 20C0047-02



Pesticide Profile

Extraction Technician: DF
 Analytical Chemist: rdh

Extraction Date(s)	Analysis Date(s)
3/5/2020	3/6/2020

Pesticides	Results	Pos/Neg	LOD(ug/g)
	ug/g		
Abamectin	ND	NEG	0.0606
Acephate	ND	NEG	0.0346
Acequinocyl	ND	NEG	0.173
Acetamiprid	ND	NEG	0.0173
Aldicarb	ND	NEG	0.0346
Azoxystrobin	ND	NEG	0.0173
Bifenazate	ND	NEG	0.0173
Bifenthrin	ND	NEG	0.0173
Boscalid	ND	NEG	0.0346
Carbaryl	ND	NEG	0.0173
Carbofuran	ND	NEG	0.0173
Chlorantraniliprole	ND	NEG	0.0173
Chlorfenapyr	ND	NEG	0.0866
Chlorpyrifos	ND	NEG	0.0173
Clofentezine	ND	NEG	0.0173
Cyfluthrin	ND	NEG	0.0866
Cypermethrin	ND	NEG	0.0866
Daminozide	ND	NEG	0.0866
DDVP (Dichlorvos)	ND	NEG	0.00866
Diazinon	ND	NEG	0.0173
Dimethoate	ND	NEG	0.0173
Ethoprophos	ND	NEG	0.0173
Etofenprox	ND	NEG	0.0346
Etoxazole	ND	NEG	0.00866
Fenoxycarb	ND	NEG	0.0173
Fenpyroximate	ND	NEG	0.0346
Fipronil	ND	NEG	0.0346
Flonicamid	ND	NEG	0.0866
Fludioxonil	ND	NEG	0.0346
Hexythiazox	ND	NEG	0.0866
Imazalil	ND	NEG	0.0346

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Pesticide Profile

Extraction Technician: DF
 Analytical Chemist: rdh

Extraction Date(s)	Analysis Date(s)
3/5/2020	3/6/2020

Pesticides	Results	Pos/Neg	LOD(ug/g)
	ug/g		
Imidacloprid	ND	NEG	0.0173
Kresoxim-methyl	ND	NEG	0.0346
Malathion	ND	NEG	0.0433
Metalaxyl	ND	NEG	0.0173
Methiocarb	ND	NEG	0.0173
Methomyl	ND	NEG	0.0346
Methyl parathion	ND	NEG	0.0866
MGK-264	ND	NEG	0.0173
Myclobutanil	ND	NEG	0.0346
Naled	ND	NEG	0.0433
Oxamyl	ND	NEG	0.0866
Paclobutrazol	ND	NEG	0.0346
Permethrins	ND	NEG	0.0346
Phosmet	ND	NEG	0.0173
Piperonyl Butoxide	ND	NEG	0.173
Prallethrin	ND	NEG	0.0173
Propiconazole	ND	NEG	0.0346
Propoxure	ND	NEG	0.0173
Pyrethrins	ND	NEG	0.433
Pyridaben	ND	NEG	0.0173
Spinosad	ND	NEG	0.0519
Spiromesifen	ND	NEG	0.0260
Spirotetramat	ND	NEG	0.0173
Spiroxamine	ND	NEG	0.0346
Tebuconazole	0.148	POS	0.00866
Thiacloprid	ND	NEG	0.0173
Thiamethoxam	ND	NEG	0.0173
Trifloxystrobin	ND	NEG	0.0173

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Metals Profile

Extraction Technician: MF	Extraction Date(s)	Analysis Date(s)
Analytical Chemist: MF	3/5/2020	3/11/2020

Metals (ICP/MS)	Method Code	Results	Units
Arsenic	ICPMS.1	<20.0	ppb
Cadmium	ICPMS.1	12.0	ppb
Lead	ICPMS.1	292	ppb
Mercury	ICPMS.1	<5.00	ppb

Limits for metals vary greatly depending on usage of the sample. Altitude Consulting recommends researching federal and state regulatory limits.

Microbial Profile

Extraction Technician: MF	Extraction Date(s)	Analysis Date(s)
Analytical Chemist: MF	3/5/2020	3/11/2020

Microbials	Method Code	Results	Units
Salmonella spp.	S.aureus.1.a	Negative	/g
Non-0157 STEC	STEC.1.b	Negative	/g
Listeria Monocytogenes	Lmono.2	Negative	/g
Aerobic Plate Count	APC.1a	<10.0	cfu/g
Total Coliform Bacteria	TCEC.1a	<10.0	cfu/g
Escherichia coli	TCEC.1a	<10.0	cfu/g
Staphylococcus Aureus	TCEC.1a	<10.0	cfu/g
Yeast and Mold	PetriFilms	<10.0	cfu/g

Limits for microbials vary greatly depending on usage of the sample. Altitude Consulting recommends researching federal and state regulatory limits.

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Residual Solvents Profile

Extraction Technician: DF
 Analytical Chemist: CB

Extraction Date(s)	Analysis Date(s)
3/5/2020	3/5/2020

Residual Solvents	Results	Calibration Range
	ug/g	
Propane	<75.6	100 - 2000
Isobutane	<75.6	100 - 2000
Methanol	<75.6	100 - 2000
Butane	<75.6	100 - 2000
Isopropanol	<75.6	100 - 2000
Ethanol	<75.6	100 - 2000
2-Methyl Butane	<75.6	100 - 2000
Acetonitrile	<75.6	100 - 2000
Acetone	<75.6	100 - 2000
n-Pentane	<75.6	100 - 2000
n-Hexane	<37.8	50 - 2000
Tetrahydrofuran	<75.6	100 - 2000
Benzene	<0.756	1.0 - 50
n-Heptane	<75.6	100 - 2000
Toluene	<75.6	100 - 2000
Ethylbenzene	<75.6	100 - 2000
m+p Xylene	<75.6	100 - 2000
o-Xylene	<75.6	100 - 2000
Total Xylenes	<75.6	100 - 2000
1,2,3-Trimethylbenzene	<75.6	100 - 2000

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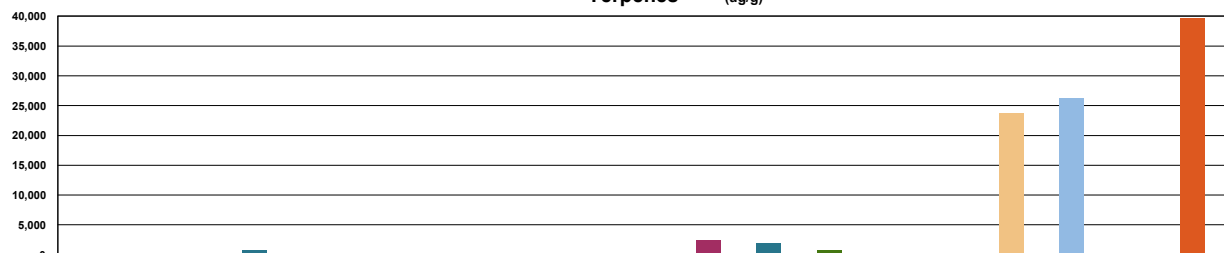
Terpene Profile

Extraction Technician: DF
 Analytical Chemist: CB

Extraction Date(s)	Analysis Date(s)
3/5/2020	3/5/2020

Terpene	Results	Terpene	Results
	ug/g		ug/g
alpha-Pinene		Isoborneol	
Camphene		Hexahydrothymol	
Sabinene		(+)-Borneol and (-)-Borneol	
beta-Myrcene	664	alpha-Terpineol	179
beta-Pinene		gamma-Terpineol	
p-Mentha-1,5-diene		Nerol	
(1S)-(+)-3-Carene		Geraniol	
alpha-Terpinene		(+)-Pulegone	
Ocimene Peak 1		Geranyl Acetate	
(R) - (+)-Limonene		alpha-Cedrene	
Ocimene Peak 2		trans-Caryophyllene	2400
Eucalyptol (1,8-Cineole)		alpha-Humulene	1990
gamma-Terpinene		Valencene	764
Sabinene Hydrate		cis-Nerolidol	
Terpinolene		trans-Nerolidol	
Linalool		Guaiol	>12000
(+)-Fenchone and L(-)-Fenchone		(-)-Caryophyllene Oxide	>12000
(1R)-Endo-(+)-Fenchyl		(+)-Cedrol	
(-)-Isopulegol		(-)-alpha-Bisabolol (Levomenol)	>12000
Camphor and (1S)-(-)-Camphor			

Terpenes (ug/g)



- | | | | |
|------------------------------|--------------------------------|------------------------------|---------------------------------|
| alpha-Pinene | (R) - (+)-Limonene | Camphor and (1S)-(-)-Camphor | alpha-Cedrene |
| Camphene | Ocimene Peak 2 | Isoborneol | trans-Caryophyllene |
| Sabinene | Eucalyptol (1,8-Cineole) | Hexahydrothymol | alpha-Humulene |
| beta-Myrcene | gamma-Terpinene | (+)-Borneol and (-)-Borneol | Valencene |
| beta-Pinene | Sabinene Hydrate | alpha-Terpineol | cis-Nerolidol |
| beta-Pinene and beta-Myrcene | Terpinolene | gamma-Terpineol | trans-Nerolidol |
| p-Mentha-1,5-diene | Linalool | Nerol | Guaiol |
| (1S)-(+)-3-Carene | (+)-Fenchone and L(-)-Fenchone | Geraniol | (-)-Caryophyllene Oxide |
| alpha-Terpinene | (1R)-Endo-(+)-Fenchyl | (+)-Pulegone | (+)-Cedrol |
| Ocimene Peak 1 | (-)-Isopulegol | Geranyl Acetate | (-)-alpha-Bisabolol (Levomenol) |

Reporting limit is roughly 40 ug/g depending on amount extracted.

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