



Customer: Blue Grass Extracts
Customer Sample ID: Winterized 2
Laboratory Number: 19K0240-01



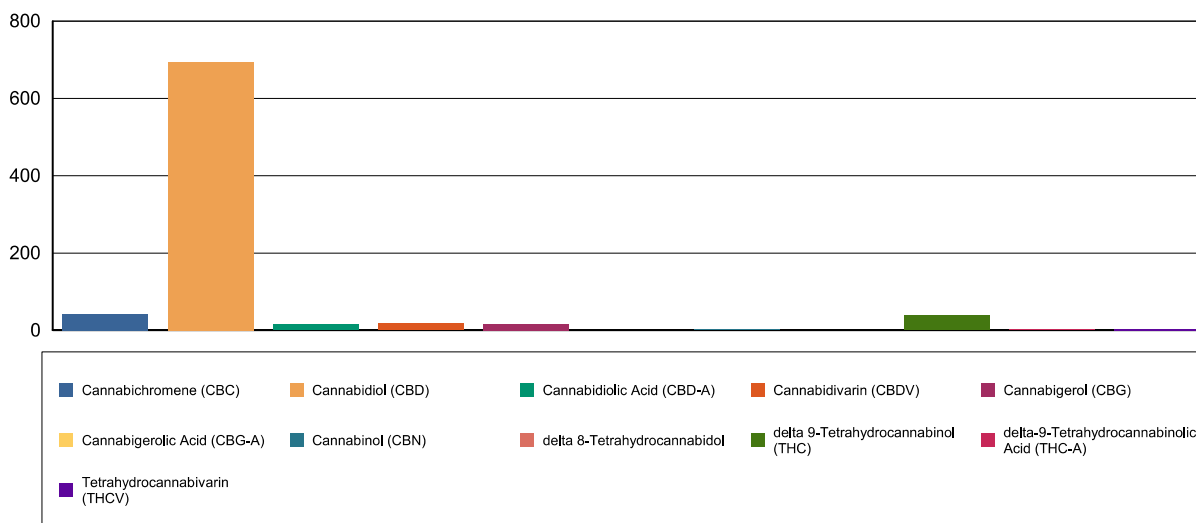
Cannabinoid Profile

Extraction Technician: DF
Analytical Chemist: GB

Extraction Date(s)	Analysis Date(s)
11/14/2019	11/14/2019

Cannabinoids (HPLC)		Results	
	LOD (mg/g)	%	mg/g
Cannabidivarin (CBDV)		1.68	16.8
Cannabidiolic Acid (CBD-A)		1.51	15.1
Cannabigerolic Acid (CBG-A)		0.04	0.415
Cannabigerol (CBG)		1.59	15.9
Cannabidiol (CBD)		69.37	694
Tetrahydrocannabivarin (THCV)		0.29	2.91
Cannabinol (CBN)		0.10	0.981
delta 9-Tetrahydrocannabinol (THC)		3.82	38.2
delta 8-Tetrahydrocannabinol	<0.20		
Cannabichromene (CBC)		4.28	42.8
delta-9-Tetrahydrocannabinolic Acid (THC-A)		0.17	1.73
Cannabinoids Total		%	mg/g
Max Active THC		3.97	39.71
Max Active CBD		70.72	707.20
T.Active Cannabinoids		79.20	792.00
Total Cannabinoids		82.90	829.00
Ratios			
17.75:1 CBD to THC		0.06:1 THC to CBD	

Cannabinoid (mg/g)



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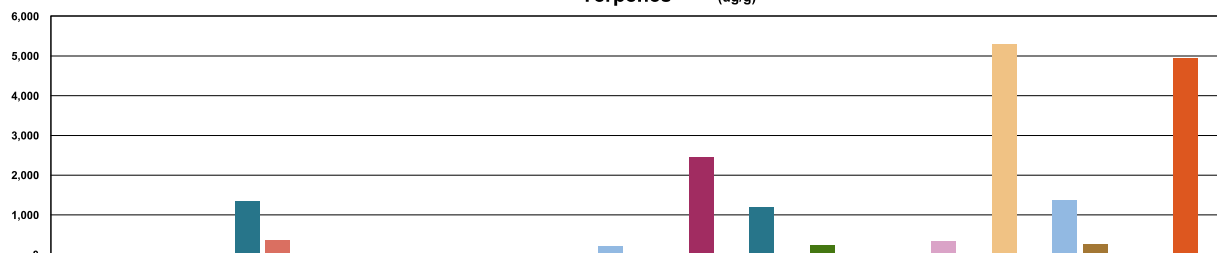
Terpene Profile

Extraction Technician: DF
Analytical Chemist: MTO

Extraction Date(s)	Analysis Date(s)
11/14/2019	11/14/2019

Terpene	Results	Terpene	Results
	ug/g		ug/g
alpha-Pinene		Isoborneol	
Camphene		Hexahydrothymol	
Sabinene		(+)-Borneol and (-)-Borneol	
beta-Myrcene	1350	alpha-Terpineol	352
beta-Pinene		gamma-Terpineol	
p-Mentha-1,5-diene		Nerol	
(1S)-(+)-3-Carene		Geraniol	
alpha-Terpinene		(+)-Pulegone	
Ocimene Peak 1		Geranyl Acetate	
(R) - (+)-Limonene	202	alpha-Cedrene	
Ocimene Peak 2		trans-Caryophyllene	2460
Eucalyptol (1,8-Cineole)		alpha-Humulene	1190
gamma-Terpinene		Valencene	240
Sabinene Hydrate		cis-Nerolidol	
Terpinolene		trans-Nerolidol	334
Linalool		Guaiol	5300
(+)-Fenchone and L(-)-Fenchone		(-)-Caryophyllene Oxide	1360
(1R)-Endo-(+)-Fenchyl	264	(+)-Cedrol	
(-)-Isopulegol		(-)-alpha-Bisabolol (Levomenol)	4940
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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Residual Solvents Profile

Extraction Technician: DF
Analytical Chemist: MTO

Extraction Date(s)	Analysis Date(s)
11/14/2019	11/14/2019

Residual Solvents	Results	Calibration Range
	ug/g	
Propane	<84.3	100 - 2000
Isobutane	<84.3	100 - 2000
Methanol	<84.3	100 - 2000
Butane	<84.3	100 - 2000
Isopropanol	<84.3	100 - 2000
Ethanol	>2000	100 - 2000
2-Methyl Butane	<84.3	100 - 2000
Acetonitrile	<84.3	100 - 2000
Acetone	<84.3	100 - 2000
n-Pentane	<84.3	100 - 2000
n-Hexane	<42.2	50 - 2000
Tetrahydrofuran	<84.3	100 - 2000
Benzene	<0.843	1.0 - 50
n-Heptane	<84.3	100 - 2000
Toluene	<84.3	100 - 2000
Ethylbenzene	<84.3	100 - 2000
m+p Xylene	<84.3	100 - 2000
o-Xylene	<84.3	100 - 2000
Total Xylenes	<84.3	100 - 2000
1,2,3-Trimethylbenzene	<84.3	100 - 2000

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