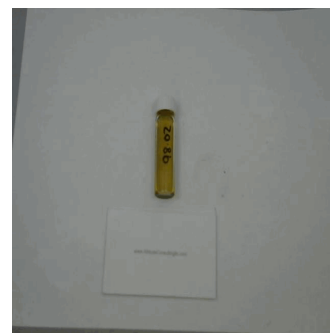




Customer: Kramer Hemp
Customer Sample ID: 0001921 - 1500mg Tincture
Laboratory Number: 20D0098-02

Density: 0.9715



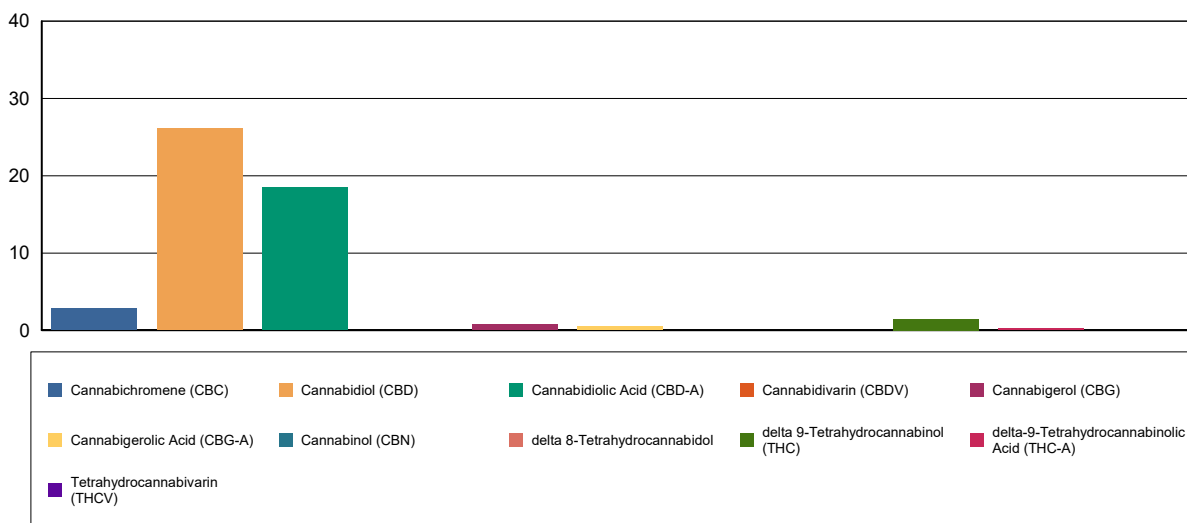
Cannabinoid Profile

Extraction Technician: DF
Analytical Chemist: CB

Extraction Date(s)	Analysis Date(s)
4/13/2020	4/13/2020

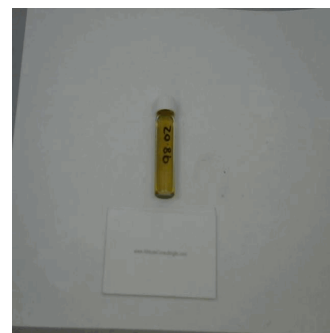
Cannabinoids (HPLC)		Results	
	LOD (mg/mL)	%	mg/mL
Cannabidiol (CBD)		2.61	26.1
delta 9-Tetrahydrocannabinol (THC)		0.15	1.48
Cannabidiol (CBD)		2.61	26.1
Tetrahydrocannabivarin (THCV)	<0.090		
Cannabinol (CBN)	<0.090		
delta 9-Tetrahydrocannabinol (THC)		0.15	1.48
delta 8-Tetrahydrocannabinol	<0.090		
Cannabichromene (CBC)		0.28	2.82
delta-9-Tetrahydrocannabinolic Acid (THC-A)		0.03	0.283
Cannabinoids Total		%	mg/mL
Max Active THC		0.17	1.73
Max Active CBD		4.23	42.30
T.Active Cannabinoids		3.11	31.10
Total Cannabinoids		5.04	50.40
Ratios			
25.37:1 CBD to THC		0.04:1 THC to CBD	

Cannabinoid (mg/mL)



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Customer: **Kramer Hemp**
 Customer Sample ID: **0001921 - 1500mg Tincture**
 Laboratory Number: **20D0098-02**
 Density: **0.9715**



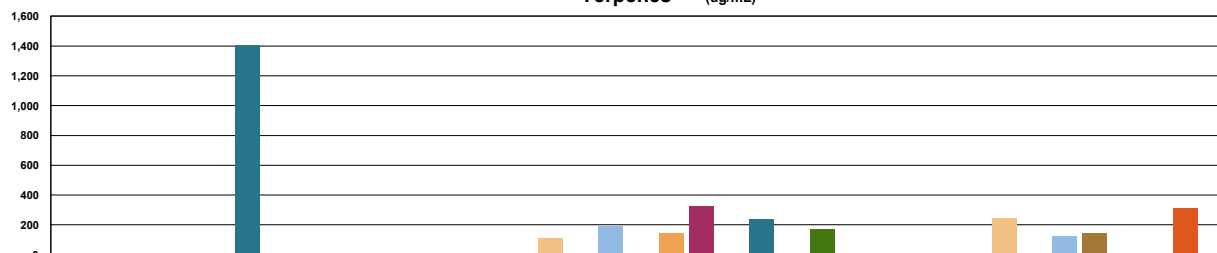
Terpene Profile

Extraction Technician: DF
 Analytical Chemist: CB

Extraction Date(s)	Analysis Date(s)
4/13/2020	4/13/2020

Terpene	Results	Terpene	Results
	ug/mL		ug/mL
alpha-Pinene		Isoborneol	
Camphene		Hexahydrothymol	
Sabinene		(+)-Borneol and (-)-Borneol	
beta-Myrcene	1400	alpha-Terpineol	
beta-Pinene		gamma-Terpineol	
p-Mentha-1,5-diene		Nerol	
(1S)-(+)-3-Carene		Geraniol	
alpha-Terpinene		(+)-Pulegone	
Ocimene Peak 1	113	Geranyl Acetate	
(R) - (+)-Limonene	188	alpha-Cedrene	
Ocimene Peak 2	141	trans-Caryophyllene	324
Eucalyptol (1,8-Cineole)		alpha-Humulene	239
gamma-Terpinene		Valencene	173
Sabinene Hydrate		cis-Nerolidol	
Terpinolene		trans-Nerolidol	
Linalool		Guaiol	245
(+)-Fenchone and L(-)-Fenchone		(-)-Caryophyllene Oxide	126
(1R)-Endo-(+)-Fenchyl	144	(+)-Cedrol	
(-)-Isopulegol		(-)-alpha-Bisabolol (Levomenol)	309
Camphor and (1S)-(-)-Camphor			

Terpenes (ug/mL)



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

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

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