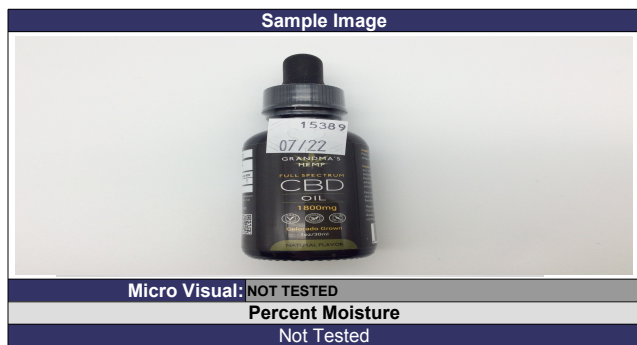
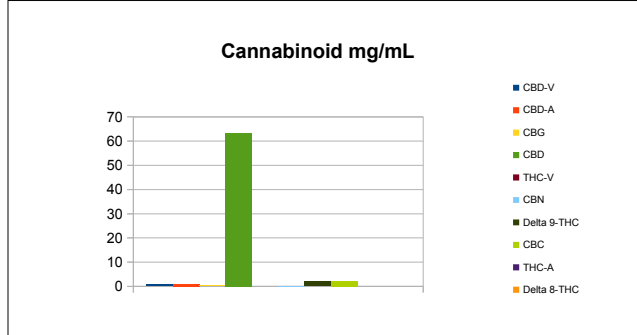


Sample Information			
Sample Identification	Grandma's Hemp Full Spectrum 1800mg		
Laboratory Number	2019015389		
Batch Number	737102		
Matrix	Tincture		
Analyzed Date	07/23/19		
Extraction Date	07/23/19		
Cannabinoid (HPLC)	mg/mL	mg/Bottle	%
CBD-V	0.81	24.40	0.08%
CBD-A	0.86	25.69	0.08%
CBG	0.4	11.99	0.04%
CBD	63.48	1904.54	6.09%
THC-V	ND	ND	ND
CBN	0.17	5.06	0.02%
Delta 9-THC	2.02	60.49	0.19%
CBC	2.05	61.49	0.20%
THC-A	ND	ND	ND
Delta 8-THC	ND	ND	ND
Cannabinoids Total			
Max Active THC	2.02	60.49	0.19%
Max Active CBD	64.24	1927.16	6.17%
T. Active Cannabinoids	68.93	2067.98	6.62%
Total Cannabinoids	69.79	2093.68	6.70%

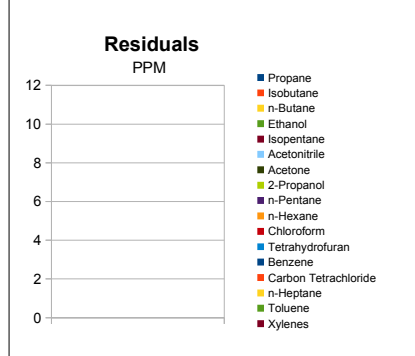
Max Active Ratios			
31.9:1 CBD to THC			
0.0:1 THC to CBD			



Chemist: EG
Report Expires: 10/22/19

RL=Reporting Limit
NA=Not Applicable
NT=Not Tested
ND=Non Detected
TNTC=Too Numerous to Count

RS (GCMS-MS)	PPM	RL
Compound		
Propane	NT	5.0
Isobutane	NT	5.0
n-Butane	NT	5.0
Ethanol	NT	5.0
Isopentane	NT	5.0
Acetonitrile	NT	5.0
Acetone	NT	50.0
2-Propanol	NT	5.0
n-Pentane	NT	5.0
n-Hexane	NT	5.0
Chloroform	NT	5.0
Tetrahydrofuran	NT	5.0
Benzene	NT	5.0
Carbon Tetrachloride	NT	5.0
n-Heptane	NT	5.0
Toluene	NT	5.0
Xylenes	NT	10.0



mL/Bottle	30
mg THC/Bottle	60.49
mg CBD/Bottle	1904.54
(mg) total cannabinoids/bottle	2093.68

Metals	PPM	RL
Compound		
Lead	NT	0.018
Arsenic	NT	0.007
Cadmium	NT	0.004
Mercury	NT	0.020

Microbial	CFU/g
Compound	
Enterobacteriaceae	NT
Coliform	NT
Ecoli	NT
Aerobic	NT
Yeast	NT
Mold	NT



Terpene (GC-MS)	mg/mL	mg/Bottle
Compound		
alpha-Pinene	ND	ND
Camphene	ND	ND
Sabinene	ND	ND
beta-Myrcene	ND	ND
Beta-Pinene	ND	ND
p-mentha-1-5-diene	ND	ND
(1S)-(+)-3-Carene	ND	ND
Alpha-Terpinene	ND	ND
Ocimene Isomer 1	ND	ND
(R)-(+)-Limonene	ND	ND
Ocimene Isomer2	ND	ND
Eucalyptol (1,8-Cineole)	ND	ND
gamma-Terpinene	ND	ND
Sabinene Hydrate	ND	ND
Terpinolene	ND	ND
Linalool	ND	ND
(+)-Fenchone and L(-)-Fenchone	ND	ND
1R)-Endo-(+)-Fenchyl	ND	ND
(-)-Isopulegol	ND	ND
Camphor	ND	ND
Isoborneol	ND	ND
Hexahydrothymol	ND	ND
(+)-Borneol and (-) Borneol	ND	ND
alpha-Terpineol	ND	ND
gamma-Terpineol	ND	ND
Nerol	ND	ND
Geraniol	ND	ND
(+)-Pulegone	ND	ND
Geranyl Acetate	ND	ND
alpha-Cedrene	ND	ND
trans-Caryophyllene	0.25	7.52
alpha-Humulene	0.17	5.10
Valencene	ND	ND
cis-Nerolidol	ND	ND
trans-Nerolidol	0.1	3.09
Guaiol	0.38	11.27
(-)-Caryophyllene Oxide	0.19	5.57
(+)-Cedrol	ND	ND
(-)-alpha-Bisabolol	0.78	23.42
Total Terpenes	1.87	55.97

