

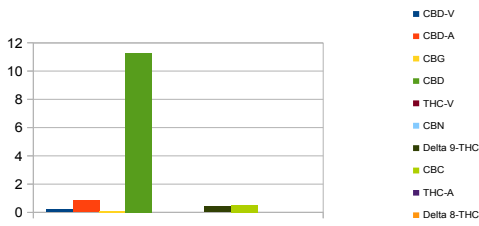
Sample Information			
Sample Identification	Grandma's Hemp Full Spectrum CBD Oil 300mg		
Laboratory Number	2018016100		
Batch Number	531501		
Matrix	Tincture		
Analyzed Date	11/13/18		
Extraction Date	11/13/18		
Cannabinoid (HPLC)	mg/mL	mg/Bottle	%
Compound			
CBD-V	0.22	6.46	0.02%
CBD-A	0.84	25.28	0.08%
CBG	0.08	2.46	0.01%
CBD	11.31	339.36	1.13%
THC-V	ND	ND	ND
CBN	ND	ND	ND
Delta 9-THC	0.42	12.66	0.04%
CBC	0.52	15.56	0.05%
THC-A	ND	ND	ND
Delta 8-THC	ND	ND	ND
Cannabinoids Total			
Max Active THC	0.42	12.66	0.04%
Max Active CBD	12.05	361.61	1.20%
T. Active Cannabinoids	12.55	376.5	1.25%
Total Cannabinoids	13.39	401.78	1.34%

Max Active Ratios

28.6 :1 CBD to THC

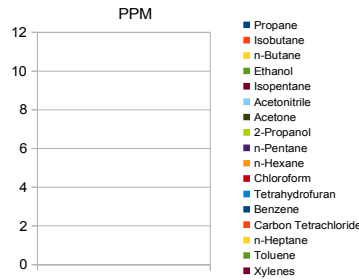
0.0 :1 THC to CBD

Cannabinoid %



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

Residuals



mL/Bottle

30

mg THC/Bottle

12.66

mg CBD/Bottle

339.36

(mg) total cannabinoids/bottle

401.78

Metals	PPM	RL
Compound		
Lead	NT	0.010
Arsenic	NT	0.010
Cadmium	NT	0.010
Mercury	NT	0.001

RL=Reporting Limit

NA=Not Applicable

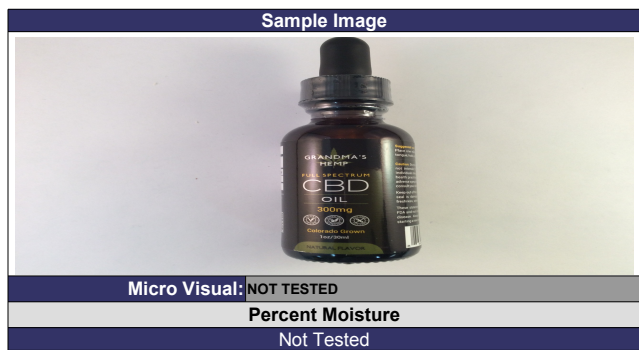
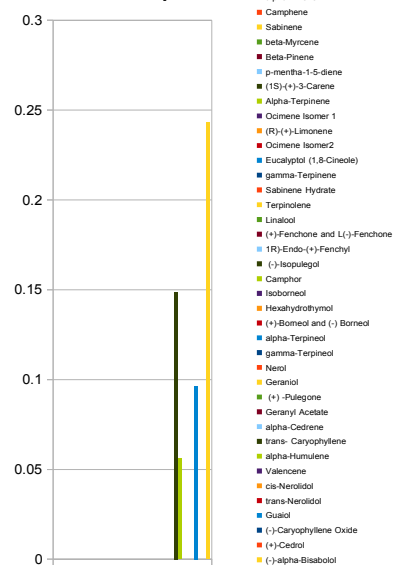
NT=Not Tested

ND=Non Detected



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 Isomer 2	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	0.15	4.46
alpha-Humulene	0.06	1.68
Valencene	ND	ND
cis-Nerolidol	ND	ND
trans-Nerolidol	ND	ND
Guaiol	0.1	2.89
(-)-Caryophyllene Oxide	ND	ND
(+)-Cedrol	ND	ND
(-)-alpha-Bisabolol	0.24	7.30
Total Terpenes	0.54	16.33

Terpenes %



Chemist: EG
Report Expires: 12/13/18