

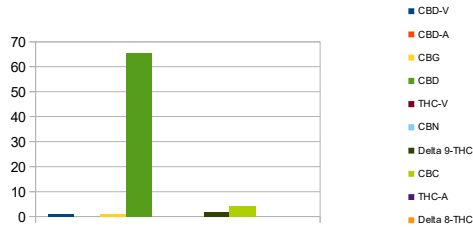
| Sample Information | | | |
|------------------------|---|-----------|-------|
| Sample Identification | Grandma's Hemp Full Spectrum CBD Oil 1800mg | | |
| Laboratory Number | 2018013253 | | |
| Batch Number | 01091718 | | |
| Matrix | Tincture | | |
| Analyzed Date | 09/28/18 | | |
| Extraction Date | 09/28/18 | | |
| Cannabinoid (HPLC) | mg/mL | mg/Bottle | % |
| Compound | | | |
| CBD-V | 0.96 | 28.67 | 0.10% |
| CBD-A | ND | ND | ND |
| CBG | 0.9 | 26.95 | 0.09% |
| CBD | 65.53 | 1965.91 | 6.53% |
| THC-V | ND | ND | ND |
| CBN | ND | ND | ND |
| Delta 9-THC | 1.7 | 50.97 | 0.17% |
| CBC | 4.34 | 130.16 | 0.43% |
| THC-A | ND | ND | ND |
| Delta 8-THC | ND | ND | ND |
| Cannabinoids Total | | | |
| Max Active THC | 1.7 | 50.97 | 0.17% |
| Max Active CBD | 65.53 | 1965.91 | 6.53% |
| T. Active Cannabinoids | 73.42 | 2202.66 | 7.31% |
| Total Cannabinoids | 73.42 | 2202.66 | 7.31% |

Max Active Ratios

38.6:1 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

50.97

mg CBD/Bottle

1965.91

(mg) total cannabinoids/bottle

2202.66

| 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

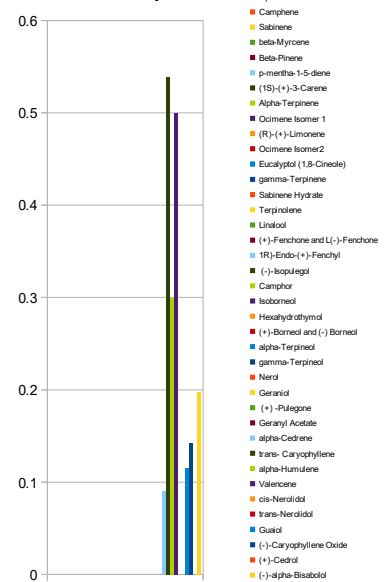
NT=Not Tested

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 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 | 0.09 | 2.69 |
| trans- Caryophyllene | 0.54 | 16.17 |
| alpha-Humulene | 0.3 | 8.99 |
| Valencene | 0.5 | 14.98 |
| cis-Nerolidol | ND | ND |
| trans-Nerolidol | ND | ND |
| Guaiol | 0.12 | 3.46 |
| (-)-Caryophyllene Oxide | 0.14 | 4.28 |
| (+)-Cedrol | ND | ND |
| (-)-alpha-Bisabolol | 0.2 | 5.93 |
| Total Terpenes | 1.88 | 56.51 |

Terpenes %



Sample Image



Micro Visual: Not Tested

Percent Moisture: NT

Chemist: TS
Report Expires: 10/28/18