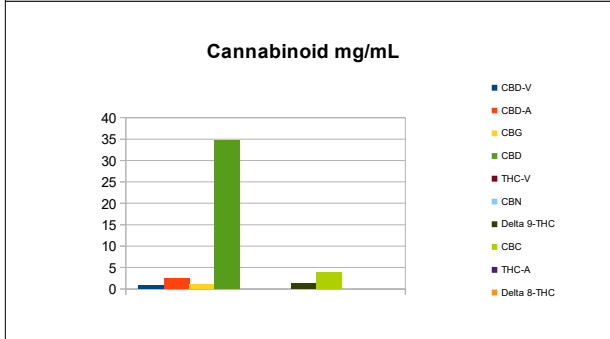
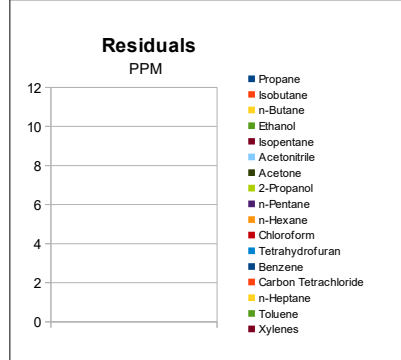


| Sample Information | | | |
|------------------------|------------------------------------|-----------|-------|
| Sample Identification | Grandma's Hemp Full Spectrum 900mg | | |
| Laboratory Number | 2019013470 | | |
| Batch Number | 712901 | | |
| Matrix | Tincture | | |
| Analyzed Date | 06/20/19 | | |
| Extraction Date | 06/20/19 | | |
| Cannabinoid (HPLC) | mg/mL | mg/Bottle | % |
| Compound | | | |
| CBD-V | 0.80 | 24.11 | 0.08% |
| CBD-A | 2.55 | 76.38 | 0.24% |
| CBG | 1.04 | 31.12 | 0.10% |
| CBD | 34.69 | 1040.58 | 3.28% |
| THC-V | ND | ND | ND |
| CBN | ND | ND | ND |
| Delta 9-THC | 1.37 | 40.96 | 0.13% |
| CBC | 3.82 | 114.64 | 0.36% |
| THC-A | ND | ND | ND |
| Delta 8-THC | ND | ND | ND |
| Cannabinoids Total | | | |
| Max Active THC | 1.37 | 40.96 | 0.13% |
| Max Active CBD | 36.93 | 1107.80 | 3.49% |
| T. Active Cannabinoids | 41.71 | 1251.40 | 3.94% |
| Total Cannabinoids | 44.26 | 1327.79 | 4.18% |

| Max Active Ratios | | | |
|-------------------|--------------------|--|--|
| | 27.0 :1 CBD to THC | | |
| | 0.0 :1 THC to CBD | | |



| 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 |

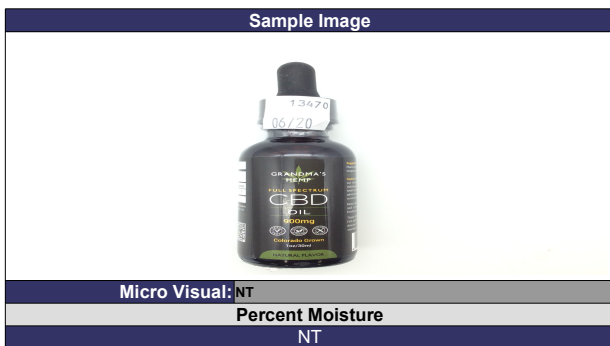
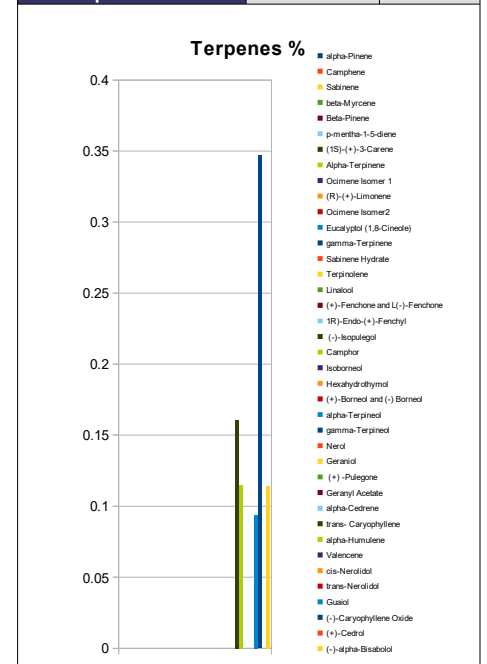


| | |
|---------------------------------------|----------------|
| mL/Bottle | 30 |
| mg THC/Bottle | 40.96 |
| mg CBD/Bottle | 1040.58 |
| (mg) total cannabinoids/bottle | 1327.79 |

| 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 | 0.16 | 4.81 |
| alpha-Humulene | 0.12 | 3.46 |
| Valencene | ND | ND |
| cis-Nerolidol | ND | ND |
| trans-Nerolidol | ND | ND |
| Guaiol | 0.09 | 2.82 |
| (-)-Caryophyllene Oxide | 0.35 | 10.41 |
| (+)-Cedrol | ND | ND |
| (-)-alpha-Bisabolol | 0.11 | 3.43 |
| Total Terpenes | 0.83 | 24.92 |



Chemist: JG
Report Expires: 09/18/19

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