

12025 NE Marx St. Portland, OR 97220 503-253-3511 / www.greenleaflab.org Green Leaf Lab proudly follows ISO/IEC 17025:2005(E) Quality Standards

Enigma

Little Farma LLC Sample ID S134806 Matrix: Flower Date Accepted: 8/29/16 Date Analyzed: 9/2/16 Sampling Method Laboratory Sampled Batch Testing in compliance with Oregon State Law and OAR 333-0081190 Analysis Methods Potency via HPLC Pesticide via GC-MS / ELISA Mold & Mildew via Plate Culture Water Activity: 0.467 at 24°C

Instruments

HP Agilent 1100 Series Analysts PMH/EEW

Potency Analysis

| Cannabinoids (% weig | ght) | Moisture Adjusted | Minor Cannabinoid Profile | |
|--------------------------|-----------|-------------------|---|-------|
| Total THC (THCA*0.877+∆ | 9) | 15.33 | -17.00 | 18.00 |
| Total CBD ((CBDA*0.877)+ | -CBD) | ND @ 0.01 | | 16.00 |
| THCA | 16.29 | 17.00 | | 14.00 |
| ∆9-THC | 0.40 | 0.42 | | 14.00 |
| ∆8-THC | ND @ 0.01 | ND @ 0.01 | | 12.00 |
| THCV | ND @ 0.01 | ND @ 0.01 | | 10.00 |
| CBDA | ND @ 0.01 | ND @ 0.01 | | 8.00 |
| CBD | ND @ 0.01 | ND @ 0.01 | | 6.00 |
| CBDV | ND @ 0.01 | ND @ 0.01 | | 4.00 |
| CBN | ND @ 0.01 | ND @ 0.01 | 1.27 | 2.00 |
| CBG | 1.22 | 1.27 | | 0.00 |
| CBC | ND @ 0.01 | ND @ 0.01 | | 0.00 |
| Total Cannabinoids | 17.91 | 18.70 | THC-A 9-THC 8-THC THCV CBDA CBD CBDV CBN CBG CB | 2 |
| | | 4.20% Moisture | | |

*The HPLC measures cannabinoids in both their acidic and activated form; total THC represent the potential total activated THC.

Mold and Mildew Screen

CFU/g

This color coded gauge represents the sample's colony forming units per gram (CFU/g) and how it compares to flowers tested at Green Leaf Lab. This is not a doctor's recommendation and is only a tool for helping compare your sample to CFU/g values observed in the lab. The larger size of the medium range indicates that the majority of samples fall within the 1400-8500 range.

320



| Quality Control | Results | |
|-------------------------------|---------|----------------------|
| Method Blank: | Passed | No Analytes Detected |
| Quality Control Sample: | Passed | 90-110% of expected |
| Sample Duplicate Requirement: | Passed | <10% difference |
| | | |

Definitions

ND: not detected ppm: parts per million, CFU/g: colony forming units per gram

Total Colonies



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Matrix: Flower Date Analyzed: 9/2/16 Green Leaf Lab proudly follows TNI 2009 Quality Standards

Analysis Methods Pesticide via LC-MS/MS

| Analytes | | AL | RESULTS | Analytes | TYPE | AL | RESULTS |
|---------------------|---------------------------------|-----|---------|-----------------|------------------------------|-----|---------|
| Acephate | Organophosphate Insecticide | 0.5 | nd | Imidacloprid | Neonicotinoid insectide | 0.4 | nd |
| Acetamiprid | Neonicotinoid instecticide | 0.2 | nd | Malathion | Organophosphate insecticide | 0.2 | nd |
| Aldicarb | Carbamate insecticide | 0.4 | nd | Metalaxyl | Xylylalanine fungicide | 0.2 | nd |
| Azoxystrobin | Strobin fungicide | 0.2 | nd | Methomyl | Carbamate insecticide | 0.4 | nd |
| Bifenazate | Unclassified insecticide | 0.2 | nd | Myclobutanil | Azole fungicide | 0.2 | nd |
| Boscalid | Anilide fungicide | 0.4 | nd | Oxamyl | Carbamate insecticide | 1 | nd |
| Carbaryl | Carbamate insecticide | 0.2 | nd | Paclobutrazol | Azole plant growth regulator | 0.4 | nd |
| Carbofuran | Carbamate insecticide | 0.2 | nd | Phosmet | Organophosphate insecticide | 0.2 | nd |
| Chlorantraniliprole | Anthranilic diamide insecticide | 0.2 | nd | Propiconazole | Azole fungicide | 0.4 | nd |
| Chlorfenapyr | Pyrazole insecticide | 1 | nd | Propoxur | Carbamate insecticide | 0.2 | nd |
| Diazinon | Organophosphate Insecticide | 0.2 | nd | Pyridaben | Unclassified insecticide | 0.2 | nd |
| Dimethoate | Organophosphate Insecticide | 0.2 | nd | Spinosad | Spinosyn insecticide | 0.2 | nd |
| Ethoprophos | Organophosphate Insecticide | 0.2 | nd | Spiromesifen | Keto-enol insecticide | 0.2 | nd |
| Etofenprox | Pyrethroid insecticide | 0.4 | nd | Spirotetramat | Keto-enol insecticide | 0.1 | nd |
| Etoxazole | Unclassified miticide | 0.2 | nd | Spiroxamine | Unclassified fungicide | 0.4 | nd |
| Fenoxycarb | Carbamate insecticide | 0.2 | nd | Thiacloprid | Neonicotinoid insectide | 0.2 | nd |
| Fenpyroximate | Pyrazole insecticide | 0.4 | nd | Thiamethoxam | Neonicotinoid insectide | 0.2 | nd |
| Fipronil | Pyrazole insecticide | 0.4 | nd | Trifloxystrobin | Strobin fungicide | 0.2 | nd |
| Flonicamid | Pyridinecarboxamide insecticide | 1 | nd | | Units: | ppm | ppm |
| Fludioxonil | non-systemic fungicide | 0.4 | nd | | | - / | /// |
| Imazalil | Azole fungicide | 0.2 | nd | 1 | | | |
| | Units: | maa | maa | 1 | | | |

Definitions

ND: not detected ppm: parts per million AL: Action Limit AC: Above Calibration Curve



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Valencene

0.50

м в в в g in g. Р в гія е г, L в в е гале гу. О гілсіві

1.00

1.50

0.00

| Enigma | | | | | |
|---|----------------------|------------------|-----------|---|---|
| Little Farma LLC | | | | Analysis Methods | Instruments |
| Sample ID | S134806 Matrix: | Flower | | Terpenes via GC-MS | HP 5890 / HP 5972 |
| Date Accepted: | 8/29/2016 Date Ar | nalvzed: | 9/7/2016 | -1111- | Analysts |
| Sampling Method: | Laboratory Batch Sa | mple | | | PMH/AKH/FFW |
| Terpene Analysis | Eaboratory Datern Sa | inpic | | About your terpene pr | ofile |
| Monoterpenes | Results in Percent | Results | s in ma/a | | |
| Camphene | 0.000% | ND @ 0.01 | mg/g | responsible for the many un | ique smells of Cannabis, but they accentuate the holistic |
| δ 3-Carene | 0.000% | ND @ 0.01 | mg/g | effect of cannabanoids as w flavor, identify different strai | vell. Terpene profiles can be utilized to quantify strong |
| p-Cymene | 0.000% | ND @ 0.01 | mg/g | Crean Loof Lob's ternana a | actual quartification of most common termones found in |
| Eucalyptol | 0.000% | ND @ 0.01 | mg/g | Cannabis sativa. Terpenes | are generally divided into two chemical classifications: |
| Fenchone | 0.000% | ND @ 0.01 | mg/g | Monoterprens and sesquiter | rpenes. |
| Geraniol | 0.000% | ND @ 0.01 | mg/g | o ⁵ . | |
| Isopulegol | 0.000% | ND @ 0.01 | mg/g | terpene | All of the monoterpenes are very similar in chemical |
| Limonene | 0.076% | 0.76 | mg/g | Monole | structure, containing 10 carbons and 6 hydrogens. |
| Linalool | 0.079% | 0.79 | mg/g | C ₁₀ H ₆ | Although, they are similar, the varying arrangements produce distinct aromas. Changes such as oxidation |
| β-Myrcene | 0.335% | 3.35 | mg/g | CH2 | and rerrangement produce monoterpenoids which |
| Nerol | 0.000% | ND @ 0.01 | mg/g | | |
| β-Ocimene | 0.000% | ND @ 0.01 | mg/g | ČH ₂ | Monoterpenes are more volatile than sesquiterpenes; the aromas tend to be stronger and they are more |
| α-Pinene | 0.122% | 1.22 | mg/g | нас СНа | prone to being lost by heating and oxidation. |
| β-Pinene | 0.084% | 0.84 | mg/g | Myrcene | |
| Pulegone | 0.000% | ND @ 0.01 | mg/g | Myrcene and Limonene are | examples of an acyclic and cyclic monotemene |
| α-Terpinene | 0.000% | ND @ 0.01 | mg/g | respectively. They both sha | re a basic structure containing a backbone of 10 |
| γ-Terpinene | 0.000% | ND @ 0.01 | mg/g | carbon atoms, nowever arra | ingea uniquely. |
| | | | | | |
| Sesquiterpenes | | | | Denes | |
| α-Bisabolol | 0.130% | 1.30 | mg/g | The ses | quiterpenes are a more complex class of terpenes. They |
| β-Caryophyllene | 0.222% | 2.22 | mg/g | Sestion are also volatile. | Thus, they often remain after some of the more volatile |
| Caryophyllene Oxide | 0.057% | 0.57 | mg/g | monote | rpenes have broken down under heat or oxidation. |
| Guaioi | 0.128% | 1.28 | mg/g | | |
| α-Humulene | 0.090% | 0.90 | mg/g | | These two common terpenes have quite |
| Nerolidol | 0.020% | U.20 | mg/g | H2C H | therapeutic properties. |
| Total Terpenes: | 1.351% | 13 51 | mg/g | caryophyllene CH ₃ | |
| Total Terpenes. | | 10.01 | mg/g | | _ bisabolol |
| | | | Tor | nono Drofilo | |
| | | | Ter | | |
| Camphene D 3-Carene p-Cymene Eucalyptol Fenchone Geraniol Isopulegol | Limonene Linalool | | | | |
| Nerol β-Ocimene Pulegone α-Terpinene γ-Terpinene | β-Pinene | Q -Pinene | | | β-Myrcene |
| | | Q -Bisat | loloc | B-Carvonhyllene | |
| | Caryophyllene Oxide | Guaiol | | P-Caryophyllene | |
| Nerolic | dol C-Humu | llene | | | |

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2.50

3.00

2.00 mg/g

Test results only valid for samples collected

4.00

3.50

Reports shall not be repeated except in full