



12025 NE Marx St. Portland, OR 97220
503-253-3511 / www.greenleaflab.org

Green Leaf Lab proudly follows TNI 2009
Quality Standards

Golden Pineapple

Western Oregon Botanicals

Sample ID: G8D0312-03

Date Sampled: 04/27/18 00:00

Date Accepted: 04/27/18

Results Valid Until: 04/27/19

Results at a Glance

Total THC : 15.94 %

Water Activity : 0.47 PASS

Percent Moisture : 5.57 % PASS

Total Terpenes : 1.401 % PASS

Eric Wendt
Chief Science Officer - 5/4/2018



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Sample ID: G8D0312-03

Matrix: Useable Marijuana

Date Sampled: 04/27/18 00:00

Date Accepted: 04/27/18

Results Valid Until: 04/27/19

Test RFID: 1A40103000098BF000000987

Source RFID: 1A40103000098BF000000984

Potency Analysis

Date/Time Extracted: 05/01/18 11:12

Analysis Method/SOP: 215

Date/Time Analyzed: 05/01/18 19:09

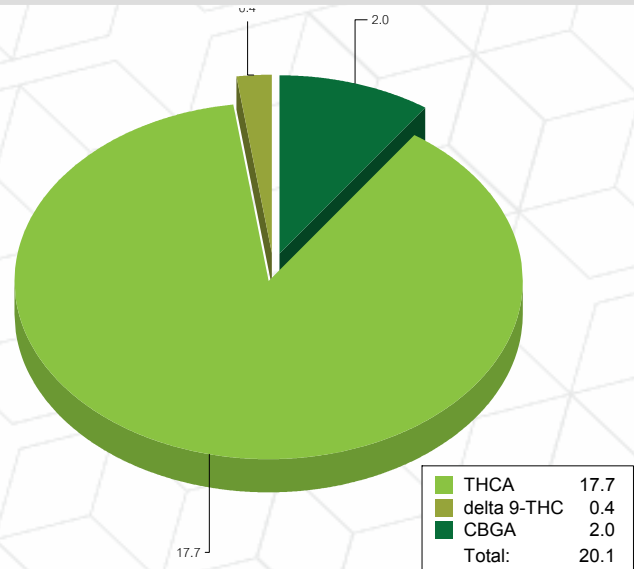
Batch Identification: 1818012

Cannabinoids (% weight)

Moisture Adjusted

Cannabinoids Profile

| | | |
|------------------------------|--------|--------|
| Total THC ((THCA*0.877)+Δ9) | | 15.94 |
| Total CBD ((CBDA*0.877)+CBD) | | < LOQ |
| THCA | 16.71 | 17.70 |
| delta 9-THC | 0.3988 | 0.4223 |
| delta 8-THC | < LOQ | < LOQ |
| THCV | < LOQ | < LOQ |
| CBGA | 1.863 | 1.973 |
| CBDA | < LOQ | < LOQ |
| CBD | < LOQ | < LOQ |
| CBDV | < LOQ | < LOQ |
| CBN | < LOQ | < LOQ |
| CBG | < LOQ | < LOQ |
| CBC | < LOQ | < LOQ |
| Total Cannabinoids | 18.98 | 20.09 |



5.57% Moisture

Water Activity

Date/Time Extracted: 05/01/18 14:23

Analysis Method/SOP: 102

Date/Time Analyzed: 05/01/18 14:23

Water Activity: 0.47 at 24°C

Moisture

Date/Time Extracted: 05/02/18 14:41

Analysis Method/SOP: 103

Date/Time Analyzed: 05/02/18 14:41

Moisture: 5.57 %

<LOQ - Results below the Limit of Quantitation - Compound not detected. LOQ = 5 PPM (mg/L)

For Potency only delta 9-THC, THCA, CBD, CBDA are ORELAP accredited analytes.

Water Activity Action Level is 0.65. Results above 0.65 fail state testing requirements and will be highlighted Red.

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Terpene Analysis

Date/Time Extracted: 05/01/18 11:12

Analysis Method/SOP: 204

Date/Time Analyzed: 05/04/18 03:06

| Monoterpenes | Results in % | Monoterpenes | Results in % |
|-----------------------|----------------|----------------------|--------------|
| Camphene | < LOQ | Camphor | < LOQ |
| 3-Carene | 0.01850 | alpha-Cedrene | < LOQ |
| Cedrol | < LOQ | Endo-fenchyl alcohol | 0.01797 |
| Eucalyptol | < LOQ | Fenchone | < LOQ |
| Geraniol | < LOQ | Geranyl acetate | < LOQ |
| Hexahydrothymol | < LOQ | Isoborneol | < LOQ |
| Isopulegol | < LOQ | Limonene | 0.08207 |
| Linalool | 0.09865 | p-Mentha-1,5-diene | 0.02828 |
| beta-Myrcene | 0.3163 | alpha-Pinene | 0.03482 |
| beta-Pinene | 0.04625 | Pulegone | < LOQ |
| Sabinene | < LOQ | Sabinene hydrate | < LOQ |
| gamma-Terpinene | < LOQ | alpha-Terpinene | 0.01773 |
| Terpinolene | 0.3752 | B/Y-Terpineol | < LOQ |
| Nerol | < LOQ | A-Terpineol | 0.02718 |
| Borneol | < LOQ | Ocimene isomer II | 0.1561 |
| Ocimene isomer I | 0.000 | | |
| Sesquiterpenes | Results in % | Sesquiterpenes | Results in % |
| alpha-Bisabolol | < LOQ | beta-Caryophyllene | 0.1336 |
| Caryophyllene Oxide | < LOQ | Guaiol | < LOQ |
| alpha-Humulene | 0.04836 | trans-Nerolidol | < LOQ |
| Valencene | < LOQ | cis-Nerolidol | < LOQ |
| Total Terpenes | 1.401 % | | |

About your terpene profile

Terpenes are aromatic molecules found in plant resins. They are not only responsible for the many unique smells of Cannabis, but they accentuate the holistic effect of cannabinoids as well. Terpene profiles can be utilized to quantify strong flavor, identify different strains and achieve therapeutic benefits.

Green Leaf Lab's terpene analysis quantifies the 36 most common terpenes found in Cannabis sativa.

Monoterpenes:

All of the monoterpenes are very similar in chemical structure, containing 10 carbons and 6 hydrogens. Although, they are similar, the varying arrangements produce distinct aromas. Changes such as oxidation and rearrangement produce monoterpenoids which will have a different chemical formula.

Monoterpenes are more volatile than sesquiterpenes; the aromas tend to be stronger and they are more prone to being lost by heating and oxidation. Myrcene and Limonene are examples of an acyclic and cyclic monoterpene, respectively. They both share a basic structure containing a backbone of 10 carbon atoms, however arranged uniquely.

Sesquiterpenes:

The sesquiterpenes are a more complex class of terpenes. They are also generally aromatic, but are also heavier and less volatile. Thus, they often remain after some of the more volatile monoterpenes have broken down under heat or oxidation.

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Chief Science Officer - 5/4/2018



Green Leaf Lab®

Official Cannalysis Report

License#: 10029074C70

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<LOQ - Results below the Limit of Quantitation - Compound not detected Terpene Analysis is not ORELAP Accredited.



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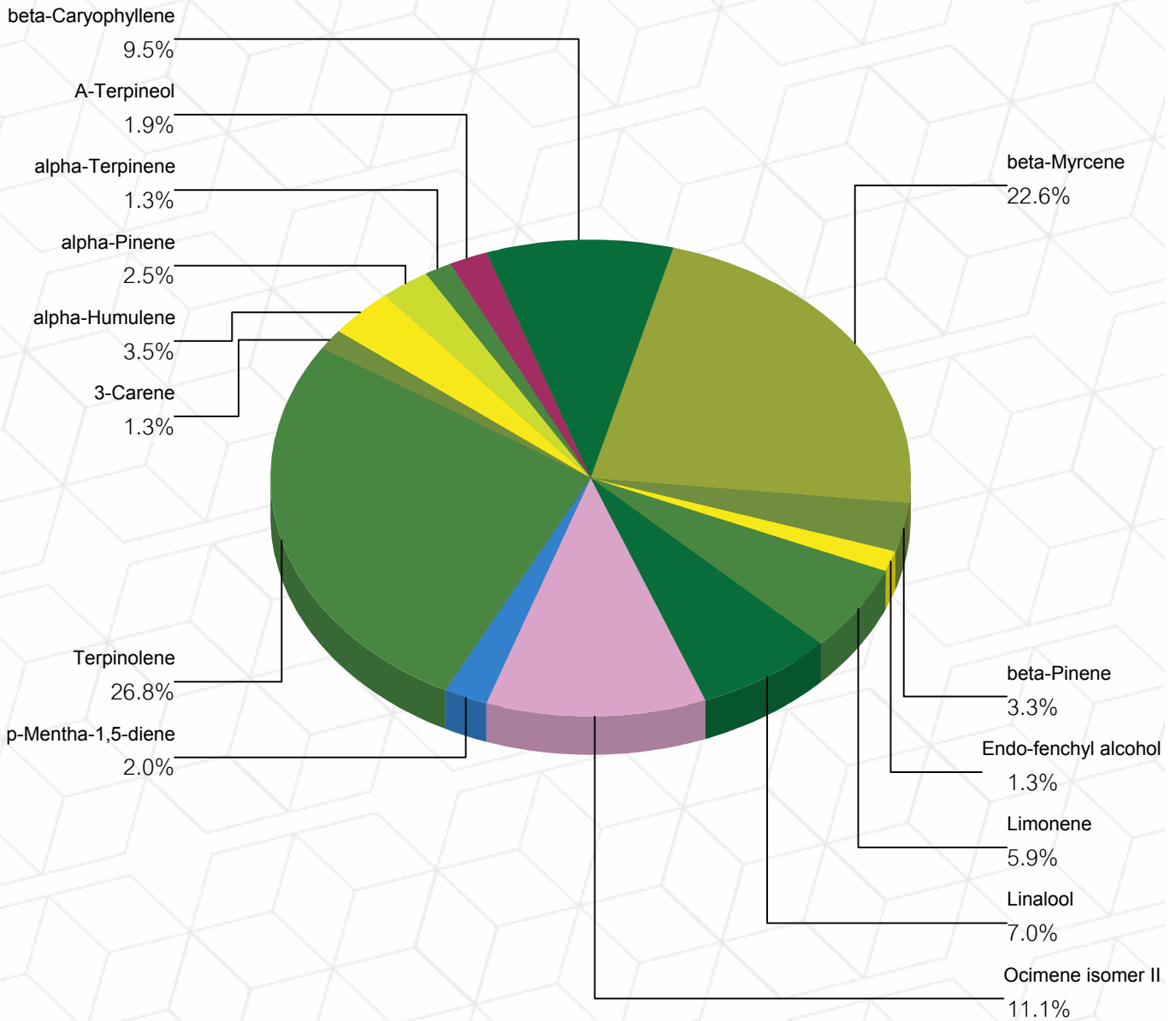
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Terpene Profile



Percentage of Total Terpenes Identified

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Quality Control Potency

Batch: 1818012 - 215-Useable

| Blank(1818012-BLK1) | | | | | | |
|---------------------|--------|--------|-------|------------------|----------------|----------------|
| Analyte | Result | LOQ | Units | %Recovery Limits | Extracted | Analyzed |
| THCA | < LOQ | 0.1340 | % | | 05/01/18 11:12 | 05/01/18 17:48 |
| delta 9-THC | < LOQ | 0.1340 | % | | 05/01/18 11:12 | 05/01/18 17:48 |
| delta 8-THC | < LOQ | 0.1340 | % | | 05/01/18 11:12 | 05/01/18 17:48 |
| CBGA | < LOQ | 0.1340 | % | | 05/01/18 11:12 | 05/01/18 17:48 |
| THCV | < LOQ | 0.1340 | % | | 05/01/18 11:12 | 05/01/18 17:48 |
| CBDA | < LOQ | 0.1340 | % | | 05/01/18 11:12 | 05/01/18 17:48 |
| CBD | < LOQ | 0.1340 | % | | 05/01/18 11:12 | 05/01/18 17:48 |
| CBDV | < LOQ | 0.1340 | % | | 05/01/18 11:12 | 05/01/18 17:48 |
| CBN | < LOQ | 0.1340 | % | | 05/01/18 11:12 | 05/01/18 17:48 |
| CBG | < LOQ | 0.1340 | % | | 05/01/18 11:12 | 05/01/18 17:48 |
| CBC | < LOQ | 0.1340 | % | | 05/01/18 11:12 | 05/01/18 17:48 |

| LCS(1818012-BS1) | | | | | | |
|------------------|------------|--------|-------|------------------|----------------|----------------|
| Analyte | % Recovery | LOQ | Units | %Recovery Limits | Extracted | Analyzed |
| THCA | 112 | 0.0034 | % | 80-120 | 05/01/18 11:12 | 05/01/18 18:00 |
| delta 9-THC | 108 | 0.0034 | % | 80-120 | 05/01/18 11:12 | 05/01/18 18:00 |
| CBDA | 112 | 0.0034 | % | 80-120 | 05/01/18 11:12 | 05/01/18 18:00 |
| CBD | 105 | 0.0034 | % | 80-120 | 05/01/18 11:12 | 05/01/18 18:00 |

| LCS(1818012-BS2) | | | | | | |
|------------------|------------|--------|-------|------------------|----------------|----------------|
| Analyte | % Recovery | LOQ | Units | %Recovery Limits | Extracted | Analyzed |
| THCA | 115 | 0.0034 | % | 80-120 | 05/01/18 11:12 | 05/01/18 18:12 |
| delta 9-THC | 109 | 0.0034 | % | 80-120 | 05/01/18 11:12 | 05/01/18 18:12 |
| CBDA | 117 | 0.0034 | % | 80-120 | 05/01/18 11:12 | 05/01/18 18:12 |
| CBD | 108 | 0.0034 | % | 80-120 | 05/01/18 11:12 | 05/01/18 18:12 |

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