



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

Green Leaf Lab proudly follows TNI 2009
Quality Standards

Sunset Sherbet

OM Extracts

Sample ID: G7L0209-01

Date Sampled: 12/18/17 00:00

Date Accepted: 12/18/17

Results Valid Until: 12/18/18

Results at a Glance

Pesticides : PASS

Total THC : 58.54 %

Residual Solvent Analysis : PASS

Eric Wendt
Chief Science Officer - 12/22/2017



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OM Extracts

Sample ID: G7L0209-01

Matrix: Extracts and Concentrates

Test RFID: 1A4010300014ADD000000004

Source RFID: 1A4010300014ADD000000003

Date Sampled: 12/18/17 00:00

Date Accepted: 12/18/17

Results Valid Until: 12/18/18

Potency Analysis

Date/Time Extracted: 12/19/17 10:18

Analysis Method/SOP: 215

Date/Time Analyzed: 12/20/17 09:09

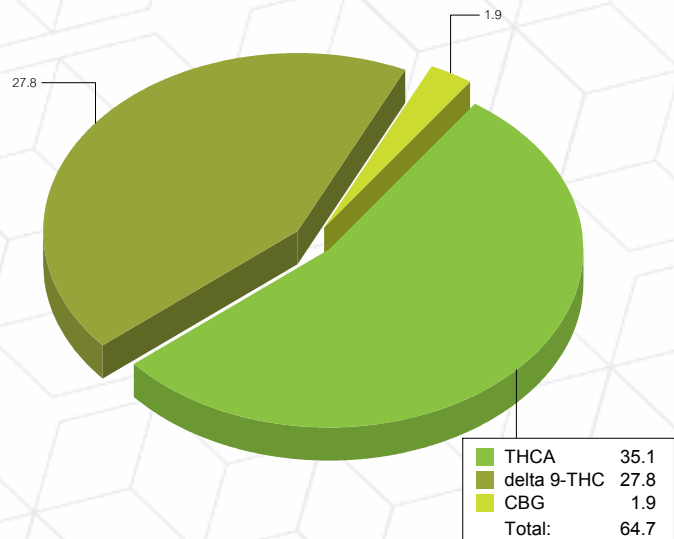
Batch Identification: 1751019

Cannabinoids (% weight)

Decarboxylated* %

Cannabinoids Profile

| | |
|------------------------------|-------|
| Total THC ((THCA*0.877)+Δ9) | 58.54 |
| Total CBD ((CBDA*0.877)+CBD) | < LOQ |
| THCA | 35.08 |
| delta 9-THC | 27.77 |
| delta 8-THC | < LOQ |
| THCV | < LOQ |
| CBGA | < LOQ |
| CBDA | < LOQ |
| CBD | < LOQ |
| CBDV | < LOQ |
| CBN | < LOQ |
| CBG | 1.873 |
| CBC | < LOQ |
| Total Cannabinoids | 64.72 |



<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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Date Accepted: 12/18/17

Results Valid Until: 12/18/18

Terpene Analysis

Date/Time Extracted: 12/19/17 11:54

Analysis Method/SOP: 204

Date/Time Analyzed: 12/20/17 21:57

| Monoterpenes | Results in % | Monoterpenes | Results in % |
|-----------------------|----------------|----------------------|--------------|
| Camphene | < LOQ | Camphor | < LOQ |
| 3-Carene | < LOQ | alpha-Cedrene | < LOQ |
| Cedrol | < LOQ | Endo-fenchyl alcohol | 0.06322 |
| Eucalyptol | < LOQ | Fenchone | < LOQ |
| Geraniol | < LOQ | Geranyl acetate | < LOQ |
| Hexahydrothymol | < LOQ | Isoborneol | < LOQ |
| Isopulegol | < LOQ | Limonene | 0.02430 |
| Linalool | 0.2349 | p-Mentha-1,5-diene | < LOQ |
| beta-Myrcene | 0.03318 | Ocimene | < LOQ |
| alpha-Pinene | < LOQ | beta-Pinene | < LOQ |
| Pulegone | < LOQ | Sabinene | < LOQ |
| Sabinene hydrate | < LOQ | gamma-Terpinene | < LOQ |
| alpha-Terpinene | < LOQ | Terpineol | 0.09934 |
| Terpinolene | < LOQ | Nerol | < LOQ |
| Borneol | < LOQ | | |
| Sesquiterpenes | Results in % | Sesquiterpenes | Results in % |
| alpha-Bisabolol | 0.4998 | beta-Caryophyllene | 3.777 |
| Caryophyllene Oxide | 0.1772 | Guaiol | < LOQ |
| alpha-Humulene | 1.933 | Nerolidol | < LOQ |
| Valencene | < LOQ | | |
| Total Terpenes | 6.842 % | | |

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.

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

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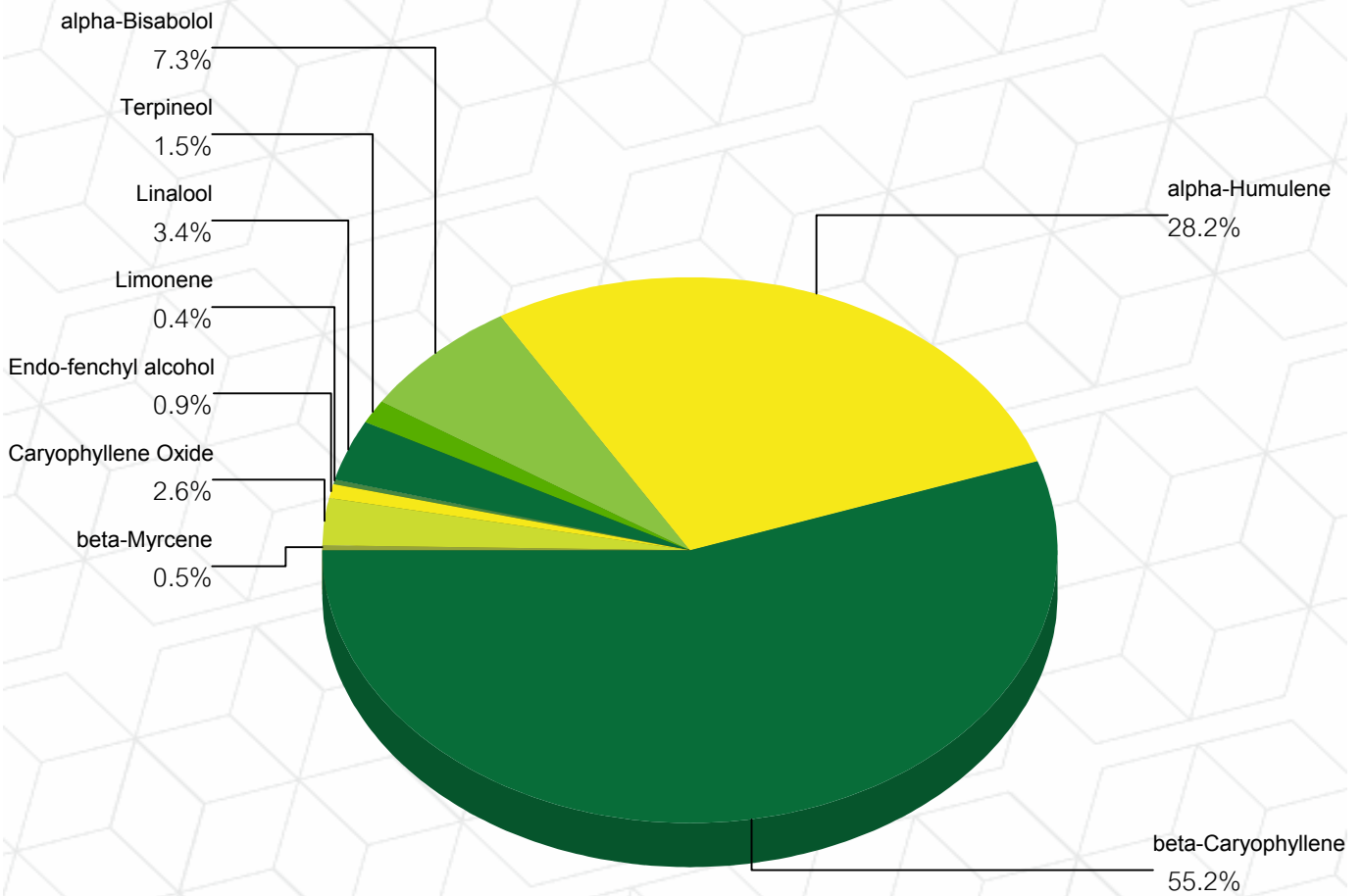
Sample ID: G7L0209-01

Matrix: Extracts and Concentrates

Date Sampled: 12/18/17 00:00
Date Accepted: 12/18/17
Results Valid Until: 12/18/18
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Source RFID: 1A4010300014ADD000000003

Terpene Profile



Percentage of Total Terpenes Identified

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OM Extracts

Sample ID: G7L0209-01

Matrix: Extracts and Concentrates

Test RFID: 1A4010300014ADD000000004

Source RFID: 1A4010300014ADD000000003

Pesticide Analysis in PPM

Date/Time Extracted: 12/19/17 10:13

Date/Time GC Analyzed: 12/20/17 03:37

Analysis Method/SOP: 203

Date/Time LC Analyzed: 12/20/17 02:30

Batch Identification: 1751012

| Analyte | Result | Action Level | LOQ | Type |
|---------------------|--------|--------------|-----|--|
| Abamectin | < LOQ | 0.5 | 0.1 | Insecticide and anthelmintic |
| Acephate | < LOQ | 0.4 | 0.1 | Organophosphate insecticide |
| Acequinocyl | < LOQ | 2 | 0.1 | Acaricide |
| Acetamiprid | < LOQ | 0.2 | 0.1 | Neonicotinoid insecticide |
| Aldicarb | < LOQ | 0.4 | 0.1 | Carbamate insecticide |
| Azoxystrobin | < LOQ | 0.2 | 0.1 | QoI fungicide |
| Bifenazate | < LOQ | 0.2 | 0.1 | Insecticide and miticide |
| Bifenthrin | < LOQ | 0.2 | 0.1 | Pyrethroid insecticide and acaricide |
| Boscalid | < LOQ | 0.4 | 0.1 | Carboxamide fungicide |
| Carbaryl | < LOQ | 0.2 | 0.1 | Carbamate insecticide |
| Carbofuran | < LOQ | 0.2 | 0.1 | Carbamate insecticide |
| Chlorantraniliprole | < LOQ | 0.2 | 0.1 | Anthranilic diamide insecticide |
| Chlorfenapyr | < LOQ | 1 | 0.2 | Pyrazole insecticide, acaricide and miticide |
| Chlorpyrifos | < LOQ | 0.2 | 0.2 | Organophosphate insecticide |
| Clofentezine | < LOQ | 0.2 | 0.1 | Ovicidal tetrazine acaricide |
| Cyfluthrin | < LOQ | 1 | 0.2 | Pyrethroid insecticide |
| Cypermethrin | < LOQ | 1 | 0.2 | Pyrethroid insecticide |
| Daminozide | < LOQ | 1 | 0.1 | Plant growth regulator |
| DDVP (Dichlorvos) | < LOQ | 1 | 0.2 | Organophosphate insecticide |
| Diazinon | < LOQ | 0.2 | 0.1 | Organophosphate insecticide |
| Dimethoate | < LOQ | 0.2 | 0.1 | Organophosphate insecticide |
| Ethoprophos | < LOQ | 0.2 | 0.1 | Organophosphate insecticide, nematocide |
| Etofenprox | < LOQ | 0.4 | 0.1 | Pyrethroid insecticide |
| Etoxazole | < LOQ | 0.2 | 0.1 | Diphenyl oxazoline acaricide |
| Fenoxycarb | < LOQ | 0.2 | 0.1 | Carbamate insecticide |
| Fenpyroximate | < LOQ | 0.4 | 0.1 | Pyrazolium insecticide and acaricide |
| Fipronil | < LOQ | 0.4 | 0.2 | Pyrazole insecticide |
| Flonicamid | < LOQ | 1 | 0.1 | Pyridinecarboxamide insecticide |
| Fludioxonil | < LOQ | 0.4 | 0.2 | Phenylpyrrole fungicide |
| Hexythiazox | < LOQ | 1 | 0.1 | Carboxamide acaricide |
| Imazalil | < LOQ | 0.2 | 0.1 | Azole fungicide |
| Imidacloprid | < LOQ | 0.4 | 0.1 | Neonicotinoid insecticide |
| Kresoxim-methyl | < LOQ | 0.4 | 0.2 | Strobilurin fungicide and bactericide |
| Malathion | < LOQ | 0.2 | 0.1 | Organophosphate insecticide and acaricide |
| Metalaxyl | < LOQ | 0.2 | 0.1 | Phenylamide fungicide |

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Date Accepted: 12/18/17

Results Valid Until: 12/18/18

OM Extracts

Sample ID: G7L0209-01

Matrix: Extracts and Concentrates

Test RFID: 1A4010300014ADD000000004

Source RFID: 1A4010300014ADD000000003

Pesticide Analysis in PPM

Date/Time Extracted: 12/19/17 10:13

Date/Time GC Analyzed: 12/20/17 03:37

Analysis Method/SOP: 203

Date/Time LC Analyzed: 12/20/17 02:30

Batch Identification: 1751012

| Analyte | Result | Action Level | LOQ | Type |
|--------------------|--------|--------------|-----|---|
| Methiocarb | < LOQ | 0.2 | 0.1 | Carbamate insecticide |
| Methomyl | < LOQ | 0.4 | 0.1 | Carbamate insecticide |
| Methyl parathion | < LOQ | 0.2 | 0.2 | Organophosphate insecticide |
| MGK-264 | < LOQ | 0.2 | 0.2 | Synergist |
| Myclobutanil | < LOQ | 0.2 | 0.1 | Triazole fungicide |
| Naled | < LOQ | 0.5 | 0.2 | Organophosphate insecticide and acaricide |
| Oxamyl | < LOQ | 1 | 0.1 | Organophosphate insecticide, nematocide |
| Paclobutrazol | < LOQ | 0.4 | 0.1 | Triazole fungicide and plant growth regulator |
| Permethrins | < LOQ | 0.2 | 0.1 | Pyrethroid insecticide |
| Phosmet | < LOQ | 0.2 | 0.1 | Organophosphate insecticide and acaricide |
| Piperonyl butoxide | < LOQ | 2 | 0.1 | Synergist |
| Prallethrin | < LOQ | 0.2 | 0.1 | Synthetic pyrethroid insecticide |
| Propiconazole | < LOQ | 0.4 | 0.2 | Triazole fungicide |
| Propoxur | < LOQ | 0.2 | 0.1 | Carbamate insecticide and acaricide |
| Pyrethrins | < LOQ | 1 | 0.1 | Pyrethroid insecticide |
| Pyridaben | < LOQ | 0.2 | 0.1 | Pyridazinone insecticide and acaricide |
| Spinosad | < LOQ | 0.2 | 0.1 | Spinosyn insecticide |
| Spiromesifen | < LOQ | 0.2 | 0.1 | Keto-enol insecticide |
| Spirotetramat | < LOQ | 0.2 | 0.1 | Keto-enol insecticide |
| Spiroxamine | < LOQ | 0.4 | 0.1 | Morpholine fungicide |
| Tebuconazole | < LOQ | 0.4 | 0.1 | Triazole fungicide and plant growth regulator |
| Thiacloprid | < LOQ | 0.2 | 0.1 | Neonicotinoid insecticide and molluscicide |
| Thiamethoxam | < LOQ | 0.2 | 0.1 | Neonicotinoid insecticide |
| Trifloxystrobin | < LOQ | 0.2 | 0.1 | Strobilurin fungicide |

<LOQ - Results below the Limit of Quantitation - Compound not detected

Results above the Action Level fail state testing requirements and will be highlighted Red.

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Source RFID: 1A4010300014ADD000000003

Date Sampled: 12/18/17 00:00

Date Accepted: 12/18/17

Results Valid Until: 12/18/18

Test RFID: 1A4010300014ADD000000004

Residual Solvents

| Solvent | Results in ppm | LOQ | Action Level | |
|-------------------|----------------|--------|-------------------|--|
| Acetone | < LOQ | 1000 | 5000 | |
| Acetonitrile | < LOQ | 50.00 | 410 | |
| Benzene | < LOQ | 0.5000 | 2 | |
| Butanes | < LOQ | 1000 | 5000 ³ | |
| 2-Butanol | < LOQ | 1000 | 5000 | |
| Cumene | < LOQ | 50.00 | 70 | |
| Cyclohexane | < LOQ | 50.00 | 3880 | |
| Dichloromethane | < LOQ | 50.00 | 600 | |
| 1,4-Dioxane | < LOQ | 50.00 | 380 | |
| 2-Ethoxyethanol | < LOQ | 50.00 | 160 | |
| Ethyl acetate | < LOQ | 1000 | 5000 | |
| Ethylene glycol | < LOQ | 50.00 | 620 | |
| Ethylene oxide | < LOQ | 50.00 | 50 | |
| Ethyl ether | < LOQ | 1000 | 5000 | |
| Heptane | < LOQ | 1000 | 5000 | |
| Hexanes | < LOQ | 50.00 | 290 ⁴ | |
| Isopropyl acetate | < LOQ | 1000 | 5000 | |
| Methanol | < LOQ | 100.0 | 3000 | |
| Pentanes | < LOQ | 1000 | 5000 ⁵ | |
| Propane | < LOQ | 1000 | 5000 | |
| 2-Propanol (IPA) | < LOQ | 1000 | 5000 | |
| Tetrahydrofuran | < LOQ | 50.00 | 720 | |
| Toluene | < LOQ | 50.00 | 890 | |

Date/Time Extracted: 12/19/17 14:12
 Date/Time Analyzed: 12/21/17 03:38
 Analysis Method/SOP: 205
 Batch Identification: 1751022

3 - Total butanes should be calculated as sum of n-butanes (CAS# 106-97-8) and iso-butane (CAS# 75-28-5)

4 - Total hexanes should be calculated as sum of n-hexane (CAS# 110-54-3), 2-methylpentane (CAS# 107-83-5), 3-methylpentane (CAS# 96-14-0), 2,2-dimethylbutane (CAS# 75-83-2), 2,3-dimethylbutane (CAS# 79-29-8)

5 - Total pentanes should be calculated as sum of n-pentane (CAS# 109-66-0), iso-pentane (CAS# 78-78-4), and neo-pentane (CAS# 463-82-1)

6 - Total xylenes are 1,2-dimethylbenzene (CAS# 95-47-6), 1,3-dimethylbenzene (CAS# 106-42-3), and 1,4-dimethylbenzene (CAS# 106-42-3)

<LOQ - Results below the Limit of Quantitation - Compound not detected
 Results above the Action Level fail state testing requirements and will be highlighted **Red**.

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Quality Control Potency

Batch: 1751019 - 215-Concentrates

| Blank(1751019-BLK1) | | | | | | |
|---------------------|--------|-------|-------|------------------|----------------|----------------|
| Analyte | Result | LOQ | Units | %Recovery Limits | Extracted | Analyzed |
| THCA | < LOQ | 1.200 | % | | 12/19/17 10:18 | 12/20/17 05:29 |
| delta 9-THC | < LOQ | 1.200 | % | | 12/19/17 10:18 | 12/20/17 05:29 |
| delta 8-THC | < LOQ | 1.200 | % | | 12/19/17 10:18 | 12/20/17 05:29 |
| CBGA | < LOQ | 1.200 | % | | 12/19/17 10:18 | 12/20/17 05:29 |
| THCV | < LOQ | 1.200 | % | | 12/19/17 10:18 | 12/20/17 05:29 |
| CBDA | < LOQ | 1.200 | % | | 12/19/17 10:18 | 12/20/17 05:29 |
| CBD | < LOQ | 1.200 | % | | 12/19/17 10:18 | 12/20/17 05:29 |
| CBDV | < LOQ | 1.200 | % | | 12/19/17 10:18 | 12/20/17 05:29 |
| CBN | < LOQ | 1.200 | % | | 12/19/17 10:18 | 12/20/17 05:29 |
| CBG | < LOQ | 1.200 | % | | 12/19/17 10:18 | 12/20/17 05:29 |
| CBC | < LOQ | 1.200 | % | | 12/19/17 10:18 | 12/20/17 05:29 |

| LCS(1751019-BS1) | | | | | | |
|------------------|------------|-------|-------|------------------|----------------|----------------|
| Analyte | % Recovery | LOQ | Units | %Recovery Limits | Extracted | Analyzed |
| THCA | 101 | 0.015 | % | 80-120 | 12/19/17 10:18 | 12/20/17 05:40 |
| delta 9-THC | 106 | 0.015 | % | 80-120 | 12/19/17 10:18 | 12/20/17 05:40 |
| CBDA | 101 | 0.015 | % | 80-120 | 12/19/17 10:18 | 12/20/17 05:40 |
| CBD | 105 | 0.015 | % | 80-120 | 12/19/17 10:18 | 12/20/17 05:40 |

| LCS(1751019-BS2) | | | | | | |
|------------------|------------|-------|-------|------------------|----------------|----------------|
| Analyte | % Recovery | LOQ | Units | %Recovery Limits | Extracted | Analyzed |
| THCA | 101 | 0.015 | % | 80-120 | 12/19/17 10:18 | 12/20/17 05:52 |
| delta 9-THC | 106 | 0.015 | % | 80-120 | 12/19/17 10:18 | 12/20/17 05:52 |
| CBDA | 100 | 0.015 | % | 80-120 | 12/19/17 10:18 | 12/20/17 05:52 |
| CBD | 104 | 0.015 | % | 80-120 | 12/19/17 10:18 | 12/20/17 05:52 |

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