

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

Blue Dream

Little Farma LLC

Sample ID S134920 Matrix: Flower

Date Accepted: 9/12/16 Date Analyzed: 9/16/16

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: 0.492 at 24°C

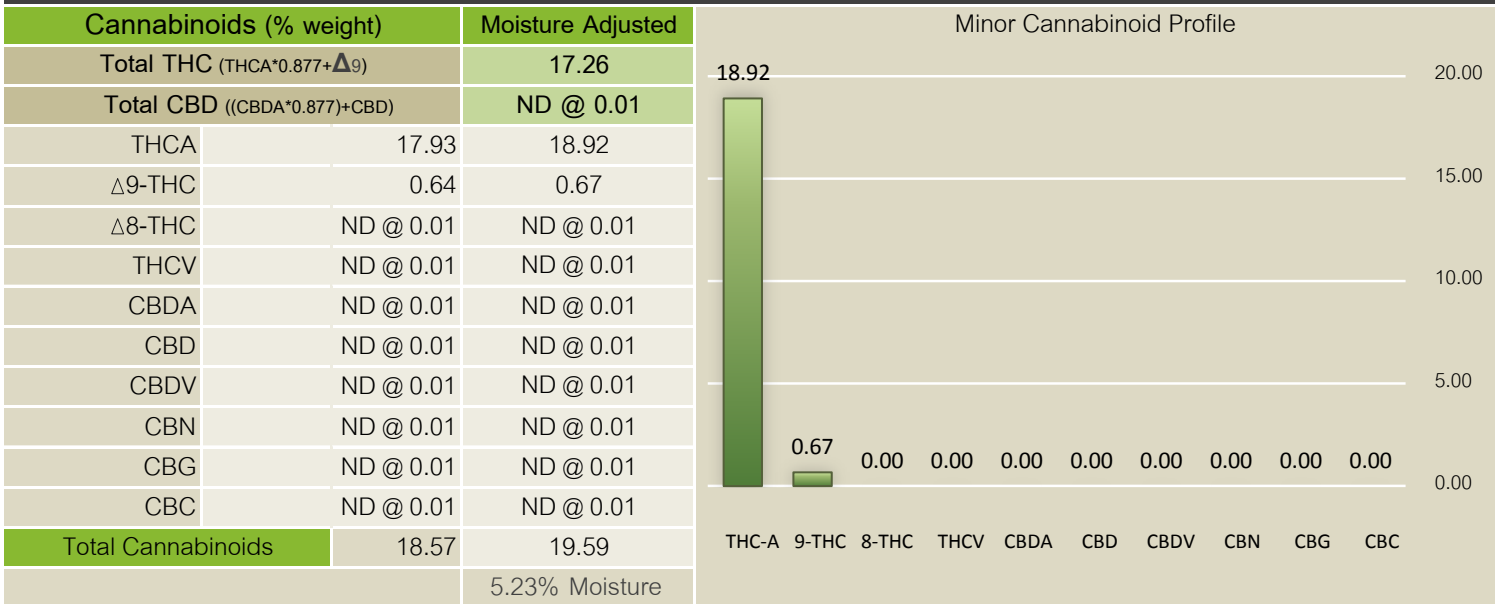
Instruments

HP Agilent 1100 Series

Analysts

PMH/EEW

Potency Analysis

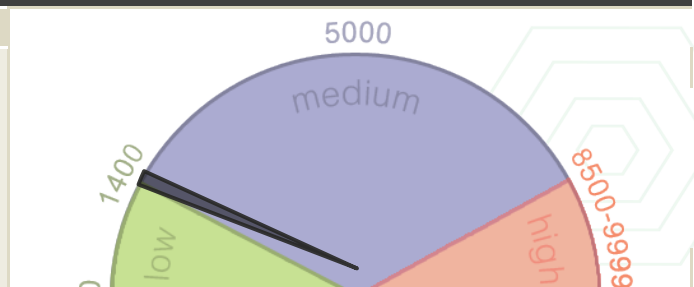


*The HPLC measures cannabinoids in both their acidic and activated form; total THC represent the potential total activated THC.

Mold and Mildew Screen

Total Colonies: **1,400** 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.



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

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Analysis Methods

Pesticide via LC-MS/MS

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Analytes	TYPE	AL	RESULTS	Analytes	TYPE	AL	RESULTS
Acephate	Organophosphate Insecticide	0.5	nd	Imidacloprid	Neonicotinoid insectide	0.4	nd
Acetamiprid	Neonicotinoid insecticide	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				
	Units:	ppm	ppm				

Definitions

ND: not detected

ppm: parts per million

AL: Action Limit

AC: Above Calibration Curve

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Sampling Method: Laboratory Sampled Batch

Analysis Methods
Terpenes via GC-MS

Instruments
HP 5890 / HP 5972

Analysts
PMH/AKH/EEW

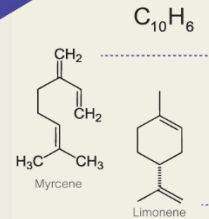
Terpene Analysis			
Monoterpenes	Results in Percent	Results in mg/g	
Camphene	0.000%	ND @ 0.01	mg/g
δ 3-Carene	0.000%	ND @ 0.01	mg/g
p-Cymene	0.000%	ND @ 0.01	mg/g
Eucalyptol	0.000%	ND @ 0.01	mg/g
Fenchone	0.000%	ND @ 0.01	mg/g
Geraniol	0.000%	ND @ 0.01	mg/g
Isopulegol	0.000%	ND @ 0.01	mg/g
Limonene	0.085%	0.85	mg/g
Linalool	0.065%	0.65	mg/g
β-Myrcene	0.777%	7.77	mg/g
Nerol	0.000%	ND @ 0.01	mg/g
β-Ocimene	0.000%	ND @ 0.01	mg/g
α-Pinene	0.505%	5.05	mg/g
β-Pinene	0.248%	2.48	mg/g
Pulegone	0.000%	ND @ 0.01	mg/g
α-Terpinene	0.000%	ND @ 0.01	mg/g
γ-Terpinene	0.000%	ND @ 0.01	mg/g
Sesquiterpenes			
α-Bisabolol	0.089%	0.89	mg/g
β-Caryophyllene	0.341%	3.41	mg/g
Caryophyllene Oxide	0.000%	ND @ 0.01	mg/g
Guaiol	0.000%	ND @ 0.01	mg/g
α-Humulene	0.146%	1.46	mg/g
Nerolidol	0.000%	ND @ 0.01	mg/g
Valencene	0.000%	ND @ 0.01	mg/g
Total Terpenes:	2.256%	22.56	mg/g

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 25 most common terpenes found in Cannabis sativa. Terpenes are generally divided into two chemical classifications: Monoterpenes and sesquiterpenes.

Monoterpenes:

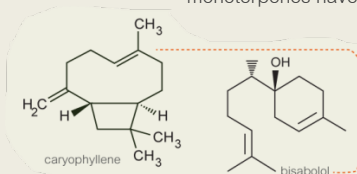


All of the monoterpenes are very similar in chemical structure, containing 10 carbons and 16 hydrogens. Although, they are similar, the varying arrangements produce distinct aromas. Changes such as oxidation and rearrangement produce monoterpenoids which will have a different chemical formula.

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.

These two common terpenes have quite varied structure and different therapeutic properties.

Terpene Profile

