

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

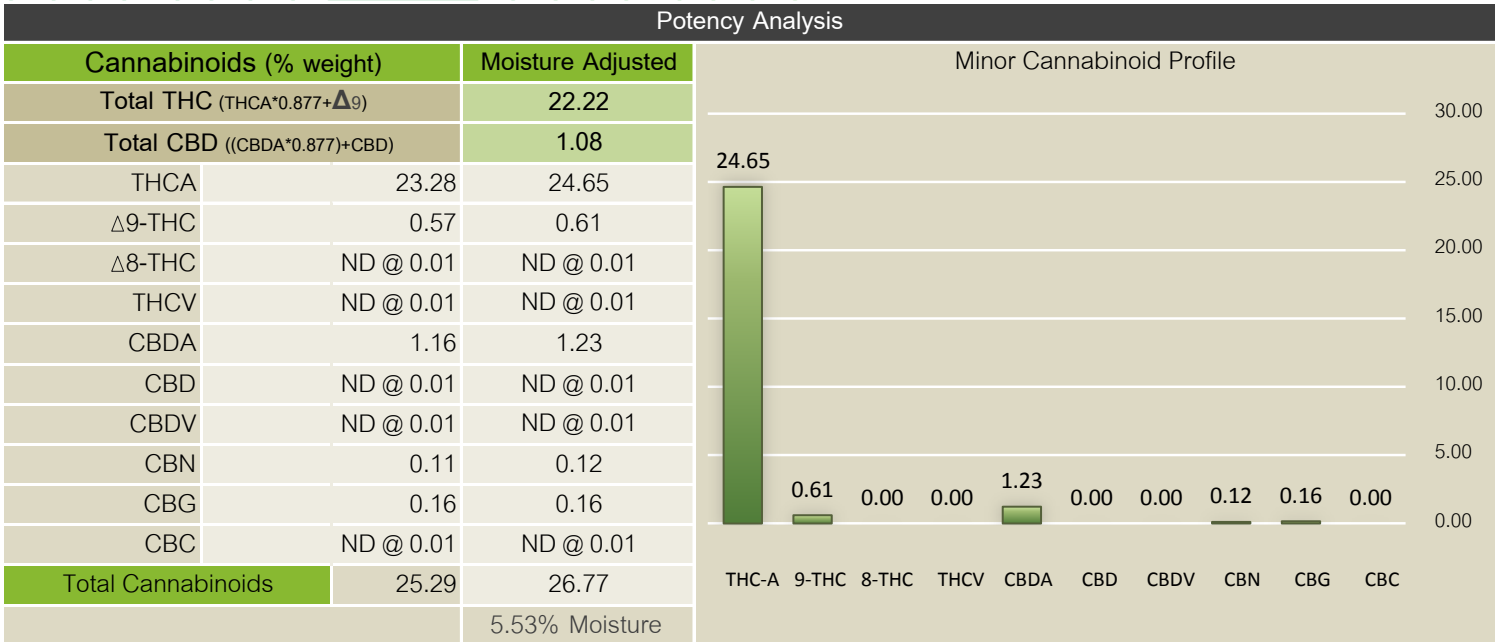
Green Leaf Lab proudly follows
ISO/IEC 17025:2005(E) Quality Standards

Gaia Gold

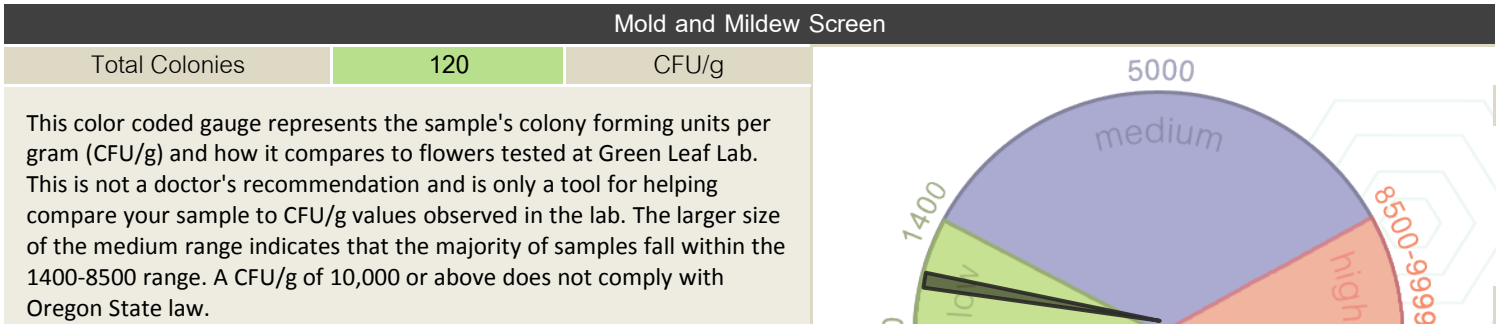
Little Farma LLC

Sample ID: S131990 Matrix: Flower
Date Accepted: 6/10/16 Date Analyzed: 6/14/16
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: 0.5 at 24°C
Instruments: HP Agilent 1100 Series
Analysts: PMH/EEW



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



Pesticide Analysis			Quality Control Results		
Pyrethroids	Below LOQ of 1	ppm	Method Blank:	Passed	No Analytes Detected
Organophosphates	Below LOQ of 0.1	ppm	Quality Control Sample:	Passed	90-110% of expected
Carbamates	Below LOQ of 0.5	ppm	Sample Duplicate Requirement:	Passed	<10% difference
Chlorinated Hydrocarbons	Below LOQ of 0.1	ppm			
Total Pesticide Content	ND	ppm			

Kevin Hounshell, Laboratory Director



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

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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	0.000%	ND @ 0.01	mg/g
Linalool	0.042%	0.42	mg/g
β-Myrcene	0.355%	3.55	mg/g
Nerol	0.000%	ND @ 0.01	mg/g
β-Ocimene	0.066%	0.66	mg/g
α-Pinene	0.131%	1.31	mg/g
β-Pinene	0.032%	0.32	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	0.014%	0.14	mg/g
β-Caryophyllene	0.000%	ND @ 0.01	mg/g
Caryophyllene Oxide	0.146%	1.46	mg/g
Guaiol	0.000%	ND @ 0.01	mg/g
α-Humulene	0.047%	0.47	mg/g
Nerolidol	0.000%	ND @ 0.01	mg/g
Valencene	0.000%	ND @ 0.01	mg/g
Total Terpenes:	0.832%	8.32	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 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.

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

