12025 NE Marx St. Portland, OR 97220
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Green Leaf Lab proudly follows TNI 2009 Quality Standards

Green Crack

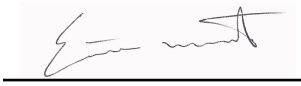
Western Oregon Botanicals

Sample ID: G8E0067-03

Date Sampled: 05/04/18 00:00
Date Accepted: 05/04/18
Results Valid Until: 05/04/19

Results at a Glance

Total THC : 19.48 %	**Water Activity :** 0.48 PASS
Percent Moisture : 3.40 % PASS	**Total Terpenes :** 2.056 % PASS



Eric Wendt
Chief Science Officer - 5/9/2018

Green Leaf Lab

Official Cannalysis Report

License#: 10029074C70

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Western Oregon Botanicals

Date Sampled: 05/04/18 00:00
Date Accepted: 05/04/18
Results Valid Until: 05/04/19

Sample ID: G8E0067-03 **Matrix:** Useable Marijuana **Test RFID:** 1A40103000098BF000000997

Source RFID: 1A40103000098BF000000993

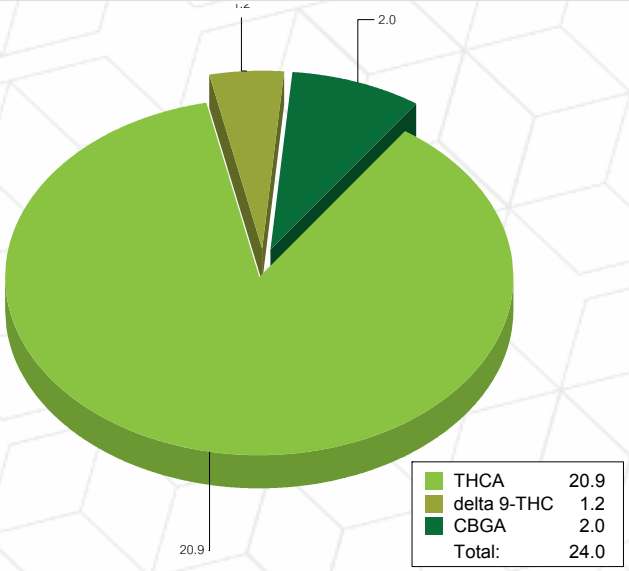
Potency Analysis

Date/Time Extracted: 05/08/18 10:16
Date/Time Analyzed: 05/09/18 08:14
Analysis Method/SOP: 215
Batch Identification: 1819010

Cannabinoids (% weight)		Moisture Adjusted
Total THC ((THCA*0.877)+Δ9)		19.48
Total CBD ((CBDA*0.877)+CBD)		< LOQ
THCA	20.16	20.87
delta 9-THC	1.135	1.175
delta 8-THC	< LOQ	< LOQ
THCV	< LOQ	< LOQ
CBGA	1.915	1.983
CBDA	< LOQ	< LOQ
CBD	< LOQ	< LOQ
CBDV	< LOQ	< LOQ
CBN	< LOQ	< LOQ
CBG	< LOQ	< LOQ
CBC	< LOQ	< LOQ
Total Cannabinoids	23.21	24.03

3.40% Moisture

Cannabinoids Profile



Water Activity

Date/Time Extracted: 05/07/18 15:12
Date/Time Analyzed: 05/07/18 15:12
Analysis Method/SOP: 102

Water Activity: 0.48 at 24°C

Moisture

Date/Time Extracted: 05/09/18 15:00
Date/Time Analyzed: 05/09/18 15:00
Analysis Method/SOP: 103

Moisture: 3.40 %

<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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Sample ID: G8E0067-03 **Matrix:** Useable Marijuana **Test RFID:** 1A40103000098BF000000997

Source RFID: 1A40103000098BF000000993

Terpene Analysis

Date/Time Extracted: 05/08/18 10:16 **Analysis Method/SOP:** 204

Date/Time Analyzed: 05/09/18 06:58

Monoterpenes	Results in %	Monoterpenes	Results in %
Camphene	< LOQ	Camphor	< LOQ
3-Carene	< LOQ	alpha-Cedrene	< LOQ
Cedrol	< LOQ	Endo-fenchyl alcohol	0.02256
Eucalyptol	< LOQ	Fenchone	< LOQ
Geraniol	< LOQ	Geranyl acetate	< LOQ
Hexahydrothymol	< LOQ	Isoborneol	< LOQ
Isopulegol	< LOQ	Limonene	0.1407
Linalool	0.09653	p-Mentha-1,5-diene	< LOQ
beta-Myrcene	0.7261	alpha-Pinene	0.07205
beta-Pinene	0.04177	Pulegone	< LOQ
Sabinene	< LOQ	Sabinene hydrate	< LOQ
gamma-Terpinene	< LOQ	alpha-Terpinene	< LOQ
Terpinolene	< LOQ	B/Y-Terpineol	< LOQ
Nerol	< LOQ	A-Terpineol	0.02357
Borneol	< LOQ	Ocimene isomer II	0.3420
Ocimene isomer I	0.003701		
Sesquiterpenes	**Results in %**	**Sesquiterpenes**	**Results in %**
alpha-Bisabolol	0.08507	beta-Caryophyllene	0.3457
Caryophyllene Oxide	0.01592	Guaiol	< LOQ
alpha-Humulene	0.1259	trans-Nerolidol	< LOQ
Valencene	0.01454	cis-Nerolidol	< LOQ
Total Terpenes	**2.056 %**		

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 cannabanoids 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.

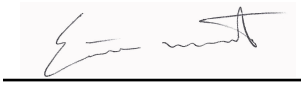
Monoterpenes:

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

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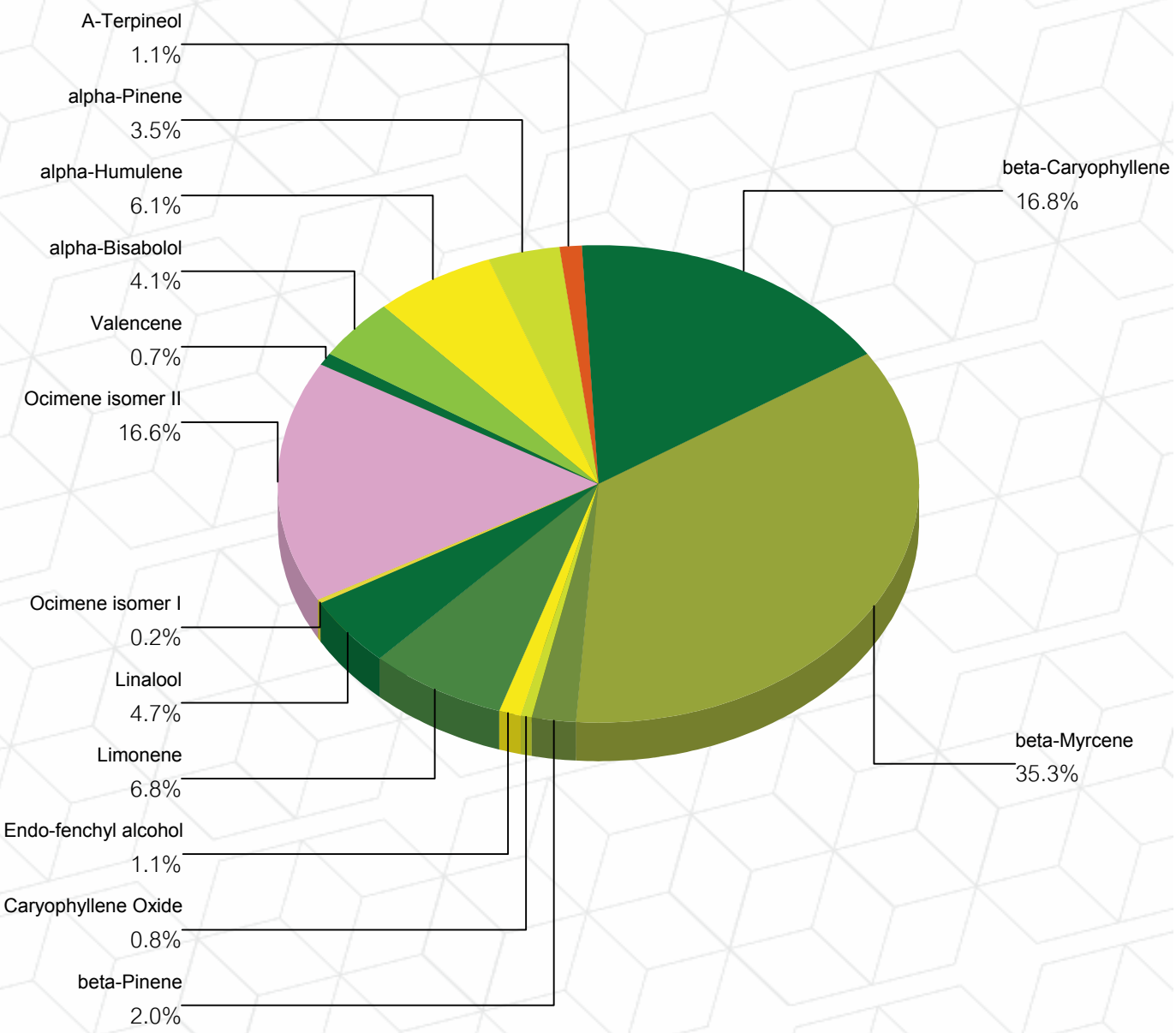
Terpene Profile



Percentage of Total Terpenes Identified

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Quality Control

Potency

Batch: 1819010 - 215-Useable

Blank(1819010-BLK1)

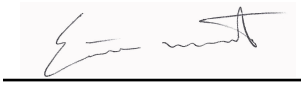
Analyte	Result	LOQ	Units	%Recovery Limits	Extracted	Analyzed
THCA	< LOQ	0.1340	%		05/08/18 10:16	05/09/18 05:32
delta 9-THC	< LOQ	0.1340	%		05/08/18 10:16	05/09/18 05:32
delta 8-THC	< LOQ	0.1340	%		05/08/18 10:16	05/09/18 05:32
CBGA	< LOQ	0.1340	%		05/08/18 10:16	05/09/18 05:32
THCV	< LOQ	0.1340	%		05/08/18 10:16	05/09/18 05:32
CBDA	< LOQ	0.1340	%		05/08/18 10:16	05/09/18 05:32
CBD	< LOQ	0.1340	%		05/08/18 10:16	05/09/18 05:32
CBDV	< LOQ	0.1340	%		05/08/18 10:16	05/09/18 05:32
CBN	< LOQ	0.1340	%		05/08/18 10:16	05/09/18 05:32
CBG	< LOQ	0.1340	%		05/08/18 10:16	05/09/18 05:32
CBC	< LOQ	0.1340	%		05/08/18 10:16	05/09/18 05:32

LCS(1819010-BS1)

Analyte	% Recovery	LOQ	Units	%Recovery Limits	Extracted	Analyzed
THCA	120	0.0034	%	80-120	05/08/18 10:16	05/09/18 05:44
delta 9-THC	117	0.0034	%	80-120	05/08/18 10:16	05/09/18 05:44
CBDA	118	0.0034	%	80-120	05/08/18 10:16	05/09/18 05:44
CBD	114	0.0034	%	80-120	05/08/18 10:16	05/09/18 05:44

LCS(1819010-BS2)

Analyte	% Recovery	LOQ	Units	%Recovery Limits	Extracted	Analyzed
THCA	117	0.0034	%	80-120	05/08/18 10:16	05/09/18 05:55
delta 9-THC	113	0.0034	%	80-120	05/08/18 10:16	05/09/18 05:55
CBDA	118	0.0034	%	80-120	05/08/18 10:16	05/09/18 05:55
CBD	111	0.0034	%	80-120	05/08/18 10:16	05/09/18 05:55



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