



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

Green Leaf Lab proudly follows TNI 2009
Quality Standards

Green Crack

Western Oregon Botanicals

Sample ID: G8D0024-02

Date Sampled: 04/02/18 00:00

Date Accepted: 04/02/18

Results Valid Until: 04/02/19

Results at a Glance

Total THC : 18.91 %

Water Activity : 0.55 PASS

Percent Moisture : 5.96 % PASS

Total Terpenes : 1.654 % PASS

Eric Wendt
Chief Science Officer - 4/5/2018



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

Green Leaf Lab proudly follows TNI 2009
 Quality Standards

Green Crack

Western Oregon Botanicals

Sample ID: G8D0024-02

Matrix: Useable Marijuana

Date Sampled: 04/02/18 00:00

Date Accepted: 04/02/18

Results Valid Until: 04/02/19

Source RFID: 1A40103000098BF000000924

Test RFID: 1A40103000098BF000000935

Potency Analysis

Date/Time Extracted: 04/03/18 11:25

Analysis Method/SOP: 215

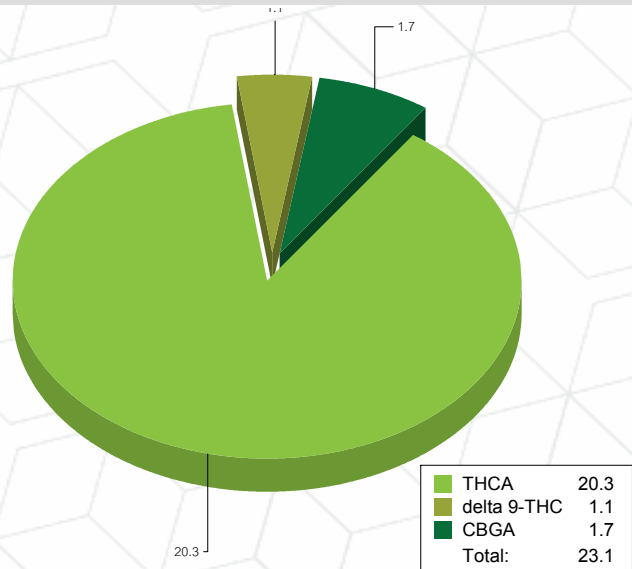
Date/Time Analyzed: 04/03/18 20:22

Batch Identification: 1814010

Cannabinoids (% weight) Moisture Adjusted

Cannabinoids (% weight)	Moisture Adjusted
Total THC ((THCA*0.877)+Δ9)	18.91
Total CBD ((CBDA*0.877)+CBD)	< LOQ
THCA	19.12
delta 9-THC	1.019
delta 8-THC	< LOQ
THCV	< LOQ
CBGA	1.571
CBDA	< LOQ
CBD	< LOQ
CBDV	< LOQ
CBN	< LOQ
CBG	< LOQ
CBC	< LOQ
Total Cannabinoids	21.71

Cannabinoids Profile



5.96% Moisture

Water Activity

Date/Time Extracted: 04/05/18 16:54

Analysis Method/SOP: 102

Date/Time Analyzed: 04/05/18 16:54

Water Activity: 0.55 at 24°C

Moisture

Date/Time Extracted: 04/04/18 00:00

Analysis Method/SOP: 103

Date/Time Analyzed: 04/04/18 00:00

Moisture: 5.96 %

<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.

Eric Wendt
Chief Science Officer - 4/5/2018



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

Green Leaf Lab proudly follows TNI 2009
 Quality Standards

Green Crack

Western Oregon Botanicals

Sample ID: G8D0024-02

Matrix: Useable Marijuana

Date Sampled: 04/02/18 00:00

Date Accepted: 04/02/18

Results Valid Until: 04/02/19

Test RFID: 1A40103000098BF000000935

Source RFID: 1A40103000098BF000000924

Terpene Analysis

Date/Time Extracted: 04/03/18 11:25

Analysis Method/SOP: 204

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

Monoterpenes	Results in %	Monoterpenes	Results in %
Camphene	< LOQ	Camphor	< LOQ
3-Carene	< LOQ	alpha-Cedrene	< LOQ
Cedrol	< LOQ	Endo-fenchyl alcohol	0.01636
Eucalyptol	< LOQ	Fenchone	< LOQ
Geraniol	< LOQ	Geranyl acetate	< LOQ
Hexahydrothymol	< LOQ	Isoborneol	< LOQ
Isopulegol	< LOQ	Limonene	0.09015
Linalool	0.06829	p-Mentha-1,5-diene	< LOQ
beta-Myrcene	0.7892	alpha-Pinene	0.1473
beta-Pinene	0.06087	Pulegone	< LOQ
Sabinene	< LOQ	Sabinene hydrate	< LOQ
gamma-Terpinene	< LOQ	alpha-Terpinene	< LOQ
Terpinolene	< LOQ	B/Y-Terpineol	< LOQ
Nerol	< LOQ	A-Terpineol	0.01305
Borneol	< LOQ	Ocimene isomer II	0.1603
Ocimene isomer I	0.000		
Sesquiterpenes	Results in %	Sesquiterpenes	Results in %
alpha-Bisabolol	0.03581	beta-Caryophyllene	0.1934
Caryophyllene Oxide	< LOQ	Guaiol	< LOQ
alpha-Humulene	0.07934	trans-Nerolidol	< LOQ
Valencene	< LOQ	cis-Nerolidol	< LOQ
Total Terpenes	1.654 %		

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.

Eric Wendt
 Chief Science Officer - 4/5/2018



Green Leaf Lab®

Official Cannalysis Report

License#: 10029074C70

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

Green Leaf Lab proudly follows TNI 2009
Quality Standards

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



Eric Wendt
Chief Science Officer - 4/5/2018



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

Green Leaf Lab proudly follows TNI 2009
Quality Standards

Green Crack

Western Oregon Botanicals

Date Sampled: 04/02/18 00:00

Date Accepted: 04/02/18

Results Valid Until: 04/02/19

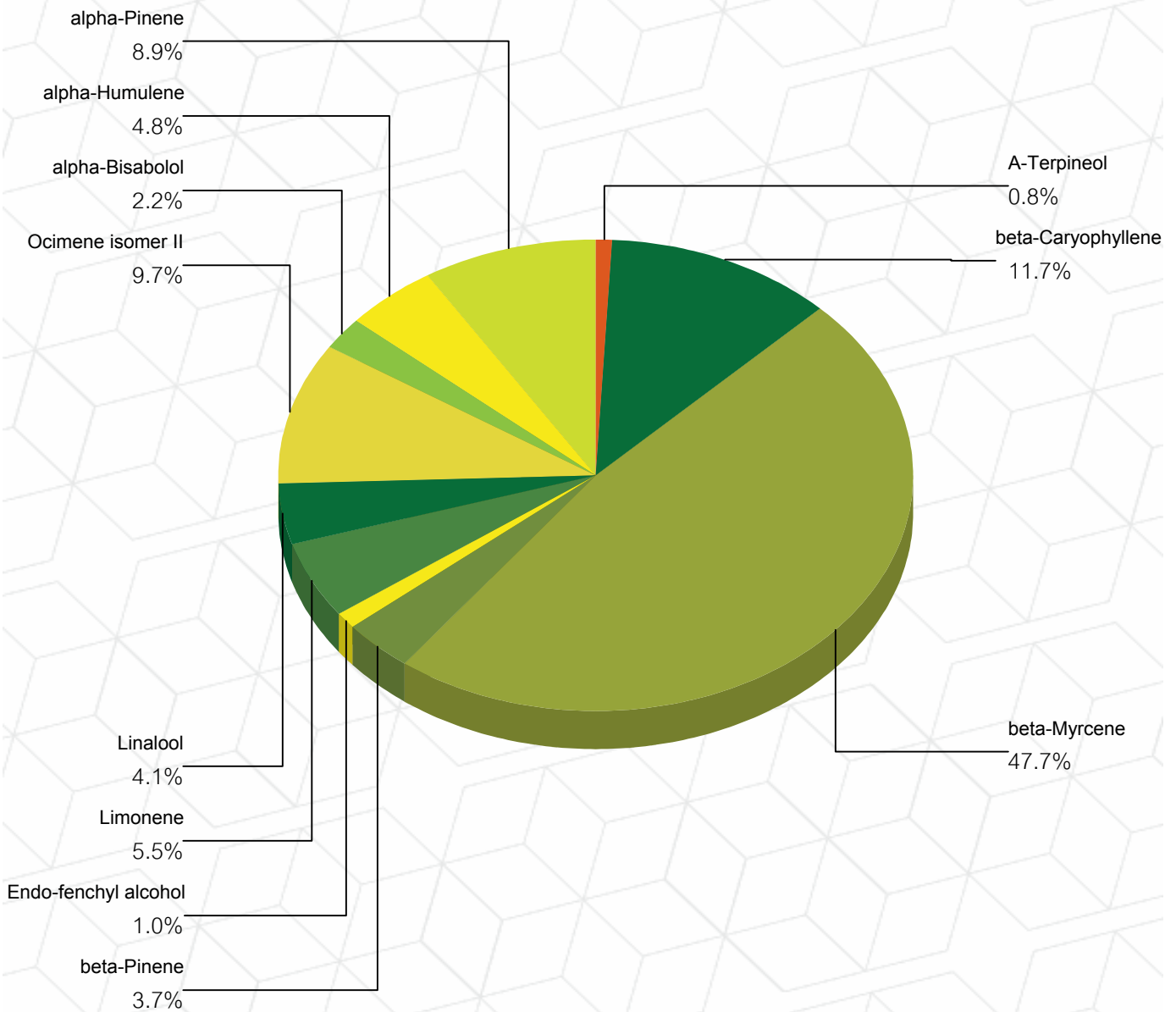
Sample ID: G8D0024-02

Matrix: Useable Marijuana

Test RFID: 1A40103000098BF000000935

Source RFID: 1A40103000098BF000000924

Terpene Profile



Percentage of Total Terpenes Identified

Eric Wendt
Chief Science Officer - 4/5/2018



Quality Control Potency

Batch: 1814010 - 215-Useable

Blank(1814010-BLK1)						
Analyte	Result	LOQ	Units	%Recovery Limits	Extracted	Analyzed
THCA	< LOQ	0.1340	%		04/03/18 11:25	04/03/18 17:05
delta 9-THC	< LOQ	0.1340	%		04/03/18 11:25	04/03/18 17:05
delta 8-THC	< LOQ	0.1340	%		04/03/18 11:25	04/03/18 17:05
CBGA	< LOQ	0.1340	%		04/03/18 11:25	04/03/18 17:05
THCV	< LOQ	0.1340	%		04/03/18 11:25	04/03/18 17:05
CBDA	< LOQ	0.1340	%		04/03/18 11:25	04/03/18 17:05
CBD	< LOQ	0.1340	%		04/03/18 11:25	04/03/18 17:05
CBDV	< LOQ	0.1340	%		04/03/18 11:25	04/03/18 17:05
CBN	< LOQ	0.1340	%		04/03/18 11:25	04/03/18 17:05
CBG	< LOQ	0.1340	%		04/03/18 11:25	04/03/18 17:05
CBC	< LOQ	0.1340	%		04/03/18 11:25	04/03/18 17:05

LCS(1814010-BS1)						
Analyte	% Recovery	LOQ	Units	%Recovery Limits	Extracted	Analyzed
THCA	102	0.0034	%	80-120	04/03/18 11:25	04/03/18 17:17
delta 9-THC	98.5	0.0034	%	80-120	04/03/18 11:25	04/03/18 17:17
CBDA	104	0.0034	%	80-120	04/03/18 11:25	04/03/18 17:17
CBD	95.6	0.0034	%	80-120	04/03/18 11:25	04/03/18 17:17

LCS(1814010-BS2)						
Analyte	% Recovery	LOQ	Units	%Recovery Limits	Extracted	Analyzed
THCA	104	0.0034	%	80-120	04/03/18 11:25	04/03/18 17:28
delta 9-THC	99.9	0.0034	%	80-120	04/03/18 11:25	04/03/18 17:28
CBDA	105	0.0034	%	80-120	04/03/18 11:25	04/03/18 17:28
CBD	96.5	0.0034	%	80-120	04/03/18 11:25	04/03/18 17:28

Eric Wendt
Chief Science Officer - 4/5/2018