



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

Green Leaf Lab proudly follows TNI 2009
Quality Standards

Top Flower Stripped - Pine Berry

Citizen Kind Hemp Farm DBA Organic Green Roots

Date Sampled: 10/25/18 00:00

Date Accepted: 10/25/18

Results Valid Until: 10/25/19

Sample ID: G8J0441-03

Results at a Glance

Total THC : 0.4683 %

Total CBD : 12.38 %

Percent Moisture : 7.53 % PASS

Total Terpenes : 0.9737 % PASS

R&D Testing Only - Not Viable for Oregon Compliance Testing

Eric Wendt
Chief Science Officer - 10/30/2018

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M #: M1004372

Sample ID: G8J0441-03

Matrix: Industrial Hemp

Potency Analysis

Date/Time Extracted: 10/29/18 13:04

Analysis Method/SOP: 215

Date/Time Analyzed: 10/29/18 20:36

Batch Identification: 1844009

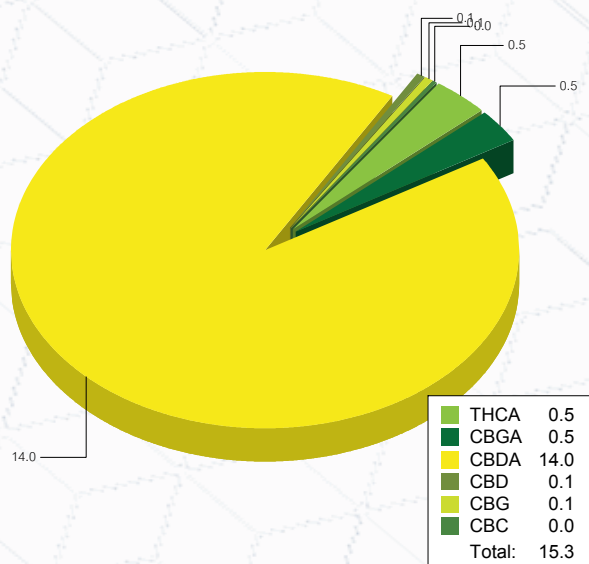
Cannabinoids (% weight)

Moisture Adjusted

Cannabinoids Profile

Total THC ((THCA*0.877)+Δ ₉)	0.4683
Total CBD ((CBDA*0.877)+CBD)	12.38
THCA	0.4938
delta 9-THC	< LOQ
delta 8-THC	< LOQ
THCV	< LOQ
CBD	0.0805
CBDA	12.96
CBDV	< LOQ
CBDVA	< LOQ
CBN	< LOQ
CBG	0.0653
CBGA	0.4642
CBC	0.0447
CBCA	< LOQ
CBLA	< LOQ

7.53% Moisture



Moisture

Date/Time Extracted: 10/26/18 17:52

Analysis Method/SOP: 103

Date/Time Analyzed: 10/26/18 17:52

Moisture: 7.53 %

<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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Matrix: Industrial Hemp

Terpene Analysis

Date/Time Extracted: 10/29/18 13:04

Analysis Method/SOP: 204

Date/Time Analyzed: 10/29/18 20:49

Monoterpenes	Results in %	Monoterpenes	Results in %
Camphene	< LOQ	Camphor	< LOQ
3-Carene	< LOQ	alpha-Cedrene	< LOQ
Cedrol	< LOQ	Endo-fenchyl alcohol	< LOQ
Eucalyptol	< LOQ	Fenchone	< LOQ
Geraniol	< LOQ	Geranyl acetate	< LOQ
Hexahydrothymol	< LOQ	Isoborneol	< LOQ
Isopulegol	< LOQ	Limonene	0.02998
Linalool	0.02172	p-Mentha-1,5-diene	< LOQ
beta-Myrcene	0.5081	Ocimene	< LOQ
alpha-Pinene	0.07835	beta-Pinene	0.03170
Pulegone	< LOQ	Sabinene	< LOQ
Sabinene hydrate	< LOQ	gamma-Terpinene	< LOQ
alpha-Terpinene	< LOQ	Terpineol	0.008402
Terpinolene	< LOQ	B/Y-Terpineol	< LOQ
Nerol	< LOQ	A-Terpineol	0.008402
Borneol	< LOQ	Ocimene isomer II	0.01132
Ocimene isomer I	0.000		
Sesquiterpenes	Results in %	Sesquiterpenes	Results in %
alpha-Bisabolol	0.03552	beta-Caryophyllene	0.1224
Caryophyllene Oxide	0.01129	Guaiol	0.05874
alpha-Humulene	0.04102	Nerolidol	0.009120
Valencene	< LOQ		
Total Terpenes	0.9737 %		

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

R&D Testing Only - Not Valid for Oregon Compliance

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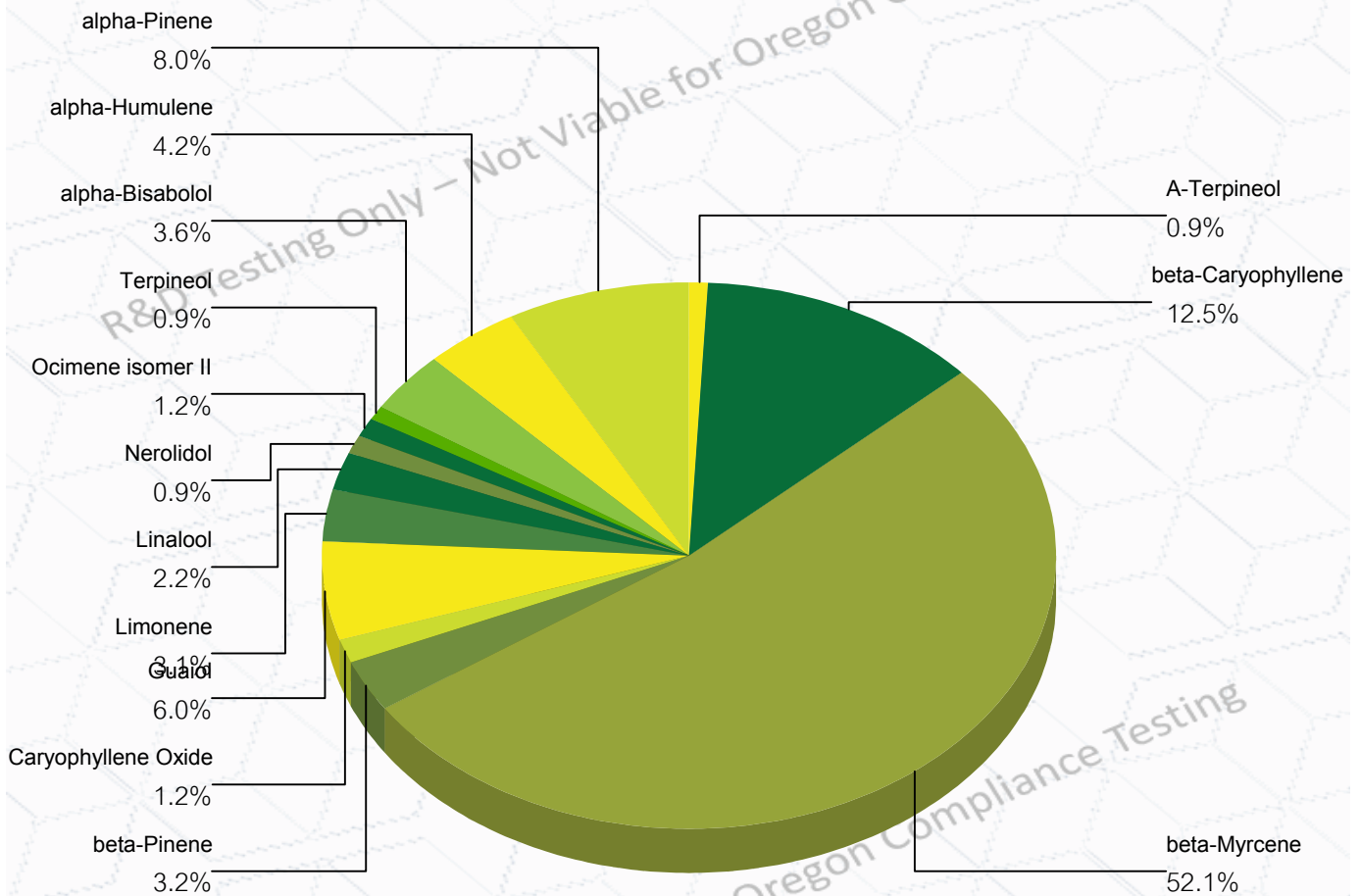
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Matrix: Industrial Hemp

Terpene Profile



Percentage of Total Terpenes Identified

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Chief Science Officer - 10/30/2018



Quality Control Potency

Batch: 1844009 - 215-Hemp

Blank(1844009-BLK1)						
Analyte	Result	LOQ	Units	%Recovery Limits	Extracted	Analyzed
THCA	< LOQ	0.0030	%		10/29/18 13:04	10/29/18 19:29
delta 9-THC	< LOQ	0.0030	%		10/29/18 13:04	10/29/18 19:29
delta 8-THC	< LOQ	0.0030	%		10/29/18 13:04	10/29/18 19:29
THCV	< LOQ	0.0030	%		10/29/18 13:04	10/29/18 19:29
CBD	< LOQ	0.0030	%		10/29/18 13:04	10/29/18 19:29
CBDA	< LOQ	0.0030	%		10/29/18 13:04	10/29/18 19:29
CBDV	< LOQ	0.0030	%		10/29/18 13:04	10/29/18 19:29
CBDVA	< LOQ	0.0030	%		10/29/18 13:04	10/29/18 19:29
CBN	< LOQ	0.0030	%		10/29/18 13:04	10/29/18 19:29
CBG	< LOQ	0.0030	%		10/29/18 13:04	10/29/18 19:29
CBGA	< LOQ	0.0030	%		10/29/18 13:04	10/29/18 19:29
CBC	< LOQ	0.0030	%		10/29/18 13:04	10/29/18 19:29
CBCA	< LOQ	0.0030	%		10/29/18 13:04	10/29/18 19:29
CBLA	< LOQ	0.0030	%		10/29/18 13:04	10/29/18 19:29

LCS(1844009-BS1)						
Analyte	% Recovery	LOQ	Units	%Recovery Limits	Extracted	Analyzed
THCA	107	0.0003	%	80-120	10/29/18 13:04	10/29/18 19:40
delta 9-THC	113	0.0003	%	80-120	10/29/18 13:04	10/29/18 19:40
CBD	116	0.0003	%	80-120	10/29/18 13:04	10/29/18 19:40
CBDA	114	0.0003	%	80-120	10/29/18 13:04	10/29/18 19:40

LCS(1844009-BS2)						
Analyte	% Recovery	LOQ	Units	%Recovery Limits	Extracted	Analyzed
THCA	100	0.00055	%	80-120	10/29/18 13:04	10/29/18 19:51
delta 9-THC	106	0.00055	%	80-120	10/29/18 13:04	10/29/18 19:51
CBD	108	0.00055	%	80-120	10/29/18 13:04	10/29/18 19:51
CBDA	108	0.00055	%	80-120	10/29/18 13:04	10/29/18 19:51

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