

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

Waikiki Queen

Western Oregon Botanicals

Sample ID: G8E0067-04

Green Leaf Lab proudly follows TNI 2009 Quality Standards

Date Sampled: 05/04/18 00:00

Date Accepted: 05/04/18

Results Valid Until: 05/04/19

Results at a Glance

Total THC: 16.38 % Water Activity: 0.55 PASS

Percent Moisture: 7.19 % PASS Total Terpenes: 1.695 % PASS





License#: 10029074C70

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Quality Standards

Date Sampled: 05/04/18 00:00

Date Accepted: 05/04/18

Results Valid Until: 05/04/19

Test RFID: 1A40103000098BF000000998

Waikiki Queen

Western Oregon Botanicals

Sample ID: G8E0067-04 Matrix: Useable Marijuana

Source RFID: 1A40103000098BF000000992

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Potency Analysis

Date/Time Extracted: 05/08/18 10:16 Analysis Method/SOP: 215
Date/Time Analyzed: 05/09/18 08:26 Batch Identification: 1819010

1				
Cannabinoids (% we	eight)	Moisture Adjusted	Cannabinoids Profile	
Total THC ((THCA*0.877)	+▲9)	16.38	[1.1	
Total CBD ((CBDA*0.877)	+CBD)	< LOQ		0.4
THCA	16.14	17.39		
delta 9-THC	1.050	1.132		4
delta 8-THC	< LOQ	< LOQ		
THCV	< LOQ	< LOQ		V
CBGA	0.3773	0.4065		
CBDA	< LOQ	< LOQ		
CBD	< LOQ	< LOQ		
CBDV	< LOQ	< LOQ		
CBN	< LOQ	< LOQ		
CBG	< LOQ	< LOQ		THCA
CBC	< LOQ	< LOQ	17.4	delta 9-
Total Cannabinoids	17.57	18.93		Total:
		7.19% Moisture		

Water Activity

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

Date/Time Analyzed: 05/07/18 15:12

Water Activity: 0.55 at 24°C

Moisture

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

Date/Time Analyzed: 05/09/18 15:00

Moisture: 7.19 %

Alialysis Method/SOP. 1

<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 - 5/9/2018



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Matrix: Useable Marijuana Sample ID: G8E0067-04

Source RFID: 1A40103000098BF000000992

Terpene Analysis

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

Monoterpenes	Results in %	Monoterpenes	Results in %
Camphene	< LOQ	Camphor	< LOQ
3-Carene	0.01933	alpha-Cedrene	< LOQ
Cedrol	< LOQ	Endo-fenchyl alcohol	0.01761
Eucalyptol	< LOQ	Fenchone	< LOQ
Geraniol	< LOQ	Geranyl acetate	< LOQ
Hexahydrothymol	< LOQ	Isoborneol	< LOQ
Isopulegol	< LOQ	Limonene	0.09956
Linalool	0.02693	p-Mentha-1,5-diene	0.03318
beta-Myrcene	0.4916	alpha-Pinene	0.03400
beta-Pinene	0.05769	Pulegone	< LOQ
Sabinene	< LOQ	Sabinene hydrate	< LOQ
gamma-Terpinene	0.01205	alpha-Terpinene	0.01864
Terpinolene	0.4554	B/Y-Terpineol	<loq< td=""></loq<>
Nerol	< LOQ	A-Terpineol	0.02519
Borneol	< LOQ	Ocimene isomer II	0.1709
Ocimene isomer I	0.000	1	
Sesquiterpenes	Results in %	Sesquiterpenes	Results in %
alpha-Bisabolol	< LOQ	beta-Caryophyllene	0.1791
aryophyllene Oxide	< LOQ	Guaiol	< LOQ
alpha-Humulene	0.05335	trans-Nerolidol	< LOQ
Valencene	<loq< td=""><td>cis-Nerolidol</td><td>< LOQ</td></loq<>	cis-Nerolidol	< LOQ

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.

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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Quality Standards

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

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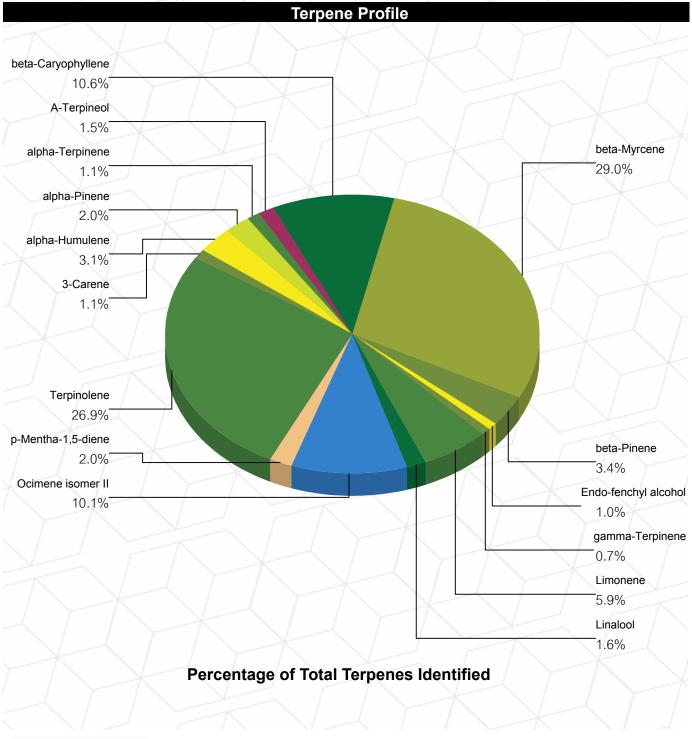
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Quality Control Potency

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	
СВС	< 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	