

EVIO Labs Medford (pka Kenevir Research)
540 East Vilas Road, Suite F, Central Point, OR 97502
541-668-7444 / www.EVIOLabs.com

Hawaiian Lights
Wilderville Farms, LLC
020-10020226685

Sample ID: M170003-01

Matrix: Useable Marijuana

METRC Batch #: 1A4010300001AF5000000154

Sampling Method/SOP: SOP.T.20.010

Batch ID: See Metrc ID

Date Sampled: 06/29/17 17:00

Batch Size: 10 lbs

Date Accepted: 06/29/17

Harvest/Process Lot ID: #64

Results Valid Until: 06/29/18

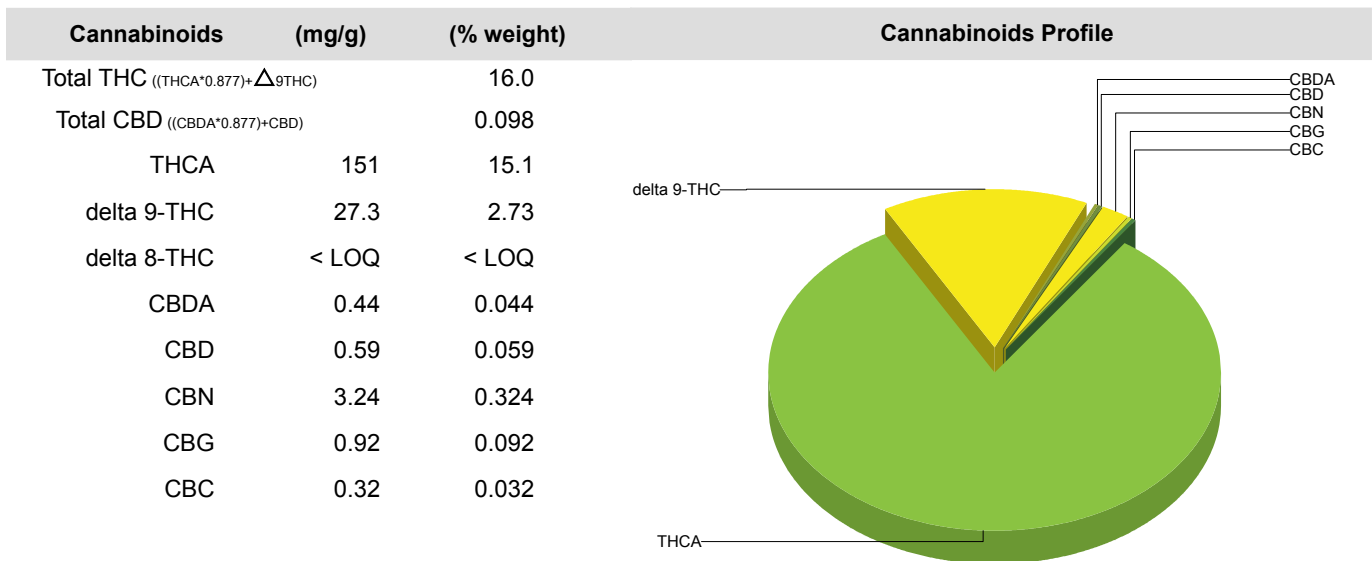
Unit for Sale:

Cannabinoid Analysis

Date/Time Extracted: 07/05/17 12:30

Analysis Method/SOP: SOP.T.40.020

Date/Time Analyzed: 07/05/17 14:04



Water Activity

Date/Time Analyzed: 07/12/17 11:08

Analysis Method/SOP: SOP.T.40.011

Water Activity: 0.490 aw


Moisture Content

Date/Time Analyzed: 07/05/17 00:00

Analysis Method/SOP: SOP.T.40.010

Moisture: 9.27 %

<LOQ: Result is below the Limit of Quantitation (LOQ) - Compound Not Detected
 For Potency only delta 9-THC, THCA, CBD, CBDA are ORELAP accredited analytes.
 Water activity action level is 0.65aw fail Oregonstate testing requirements and will be highlighted **RED**.


Ian Riversong
 Laboratory Director - 7/14/2017

EVIO Labs Medford (pka Kenevir Research)
540 East Vilas Road, Suite F, Central Point, OR 97502
541-668-7444 / www.EVIOLabs.com

Hawaiian Lights

Wilderville Farms, LLC
020-10020226685

Sample ID: M170003-01 METRC Batch #: 1A4010300001AF5000000154
Matrix: Useable Marijuana

Date Sampled: 06/29/17 17:00
Date Accepted: 06/29/17
Results Valid Until: 06/29/18
Batch ID: See Metrc ID
Batch Size: 10 lbs
Sampling Method/SOP: SOP.T.20.010

Pesticide

Date/Time Extracted: 06/29/17 00:00
Analysis Method/SOP: SOP.T.30.060

Date/Time GC Analyzed:
Date/Time LC Analyzed: 07/06/17 00:00

Analyte	LOQ	Action Level	Result	Units	Type
Abamectin	0.500	0.5	< LOQ	ppm	
Acephate	0.400	0.4	< LOQ	ppm	Organophosphate insecticide
Acequinocyl	2.00	2	< LOQ	ppm	
Acetamiprid	0.200	0.2	< LOQ	ppm	Neonicotinoid insecticide
Aldicarb	0.400	0.4	< LOQ	ppm	Carbamate insecticide
Azoxystrobin	0.200	0.2	< LOQ	ppm	
Bifenazate	0.200	0.2	< LOQ	ppm	Unclassified insecticide
Bifenthrin	0.200	0.2	< LOQ	ppm	
Boscalid	0.400	0.4	< LOQ	ppm	Anilide fungicide
Carbaryl	0.200	0.2	< LOQ	ppm	Carbamate insecticide
Carbofuran	0.200	0.2	< LOQ	ppm	Carbamate insecticide
Chlorantraniliprole	0.200	0.2	< LOQ	ppm	Anthranilic diamide insecticide
Chlorfenapyr	1.00	1	< LOQ	ppm	Pyrazole insecticide
Chlorpyrifos	0.200	0.2	< LOQ	ppm	Organophosphate insecticide
Clofentezine	0.200	0.2	< LOQ	ppm	
Cyfluthrin	1.00	1	< LOQ	ppm	
Cypermethrin	1.00	1	< LOQ	ppm	
Daminozide	1.00	1	< LOQ	ppm	
DDVP (Dichlorvos)	1.00	1	< LOQ	ppm	
Diazinon	0.200	0.2	< LOQ	ppm	Organophosphate insecticide
Dimethoate	0.200	0.2	< LOQ	ppm	
Ethoprophos	0.200	0.2	< LOQ	ppm	
Etofenprox	0.400	0.4	< LOQ	ppm	
Etoxazole	0.200	0.2	< LOQ	ppm	Unclassified miticide
Fenoxycarb	0.200	0.2	< LOQ	ppm	
Fenpyroximate	0.400	0.4	< LOQ	ppm	
Fipronil	0.400	0.4	< LOQ	ppm	Pyrazole insecticide
Flonicamid	1.00	1	< LOQ	ppm	Pyridinecarboxamide insecticide
Fludioxonil	0.400	0.4	< LOQ	ppm	non-systemic fungicide
Hexythiazox	1.00	1	< LOQ	ppm	
Imazalil	0.200	0.2	< LOQ	ppm	Azole fungicide
Imidacloprid	0.400	0.4	< LOQ	ppm	Neonicotinoid insecticide
Kresoxim-methyl	0.400	0.4	< LOQ	ppm	
Malathion	0.200	0.2	< LOQ	ppm	
Metalaxyl	0.200	0.2	< LOQ	ppm	
Methiocarb	0.200	0.2	< LOQ	ppm	Carbamate insecticide
Methomyl	0.400	0.4	< LOQ	ppm	Carbamate insecticide
Methyl parathion	0.200	0.2	< LOQ	ppm	



Ian Riversong
Laboratory Director - 7/14/2017

EVIO Labs Medford (pka Kenevir Research)
540 East Vilas Road, Suite F, Central Point, OR 97502
541-668-7444 / www.EVIOLabs.com

Hawaiian Lights

Wilderville Farms, LLC

020-10020226685

Sample ID: M170003-01

METRC Batch #: 1A4010300001AF5000000154

Matrix: Useable Marijuana

Date Sampled: 06/29/17 17:00

Date Accepted: 06/29/17

Results Valid Until: 06/29/18

Batch ID: See Metrc ID

Batch Size: 10 lbs

Sampling Method/SOP: SOP.T.20.010

Pesticide

Date/Time Extracted: 06/29/17 00:00

Date/Time GC Analyzed:

Analysis Method/SOP: SOP.T.30.060

Date/Time LC Analyzed: 07/06/17 00:00

Analyte	LOQ	Action Level	Result	Units	Type
MGK-264	0.200	0.2	< LOQ	ppm	
Myclobutanil	0.200	0.2	< LOQ	ppm	Azole fungicide
Naled	0.500	0.5	< LOQ	ppm	
Oxamyl	1.00	1	< LOQ	ppm	Carbamate insecticide
Paclobutrazol	0.400	0.4	< LOQ	ppm	Azole plant growth regulator
Permethrins	0.200	0.2	< LOQ	ppm	
Phosmet	0.200	0.2	< LOQ	ppm	Organophosphate insecticide
Prallethrin	0.200	0.2	< LOQ	ppm	
Propiconazole	0.400	0.4	< LOQ	ppm	
Propoxur	0.200	0.2	< LOQ	ppm	Carbamate insecticide
Pyrethrins	1.00	1	< LOQ	ppm	
Pyridaben	0.200	0.2	< LOQ	ppm	Unclassified insecticide
Spinosad	0.200	0.2	< LOQ	ppm	Spinosyn insecticide
Spiromesifen	0.200	0.2	< LOQ	ppm	Keto-enol insecticide
Spirotetramat	0.200	0.2	< LOQ	ppm	Keto-enol insecticide
Spiroxamine	0.400	0.4	< LOQ	ppm	Unclassified fungicide
Tebuconazole	0.400	0.4	< LOQ	ppm	
Thiacloprid	0.200	0.2	< LOQ	ppm	
Thiamethoxam	0.200	0.2	< LOQ	ppm	Neonicotinoid insectide
Trifloxystrobin	0.200	0.2	< LOQ	ppm	Strobin fungicide

<LOQ: Result is below the Limit of Quantitation (LOQ) - Compound Not Detected

Results above the action level fail Oregon state testing requirements and will be highlighted **RED**.

Pesticide testing performed in conjunction with Synergistic Pesticide Laboratory, an ORELAP and ISO 17025 accredited laboratory.



Ian Riversong
Laboratory Director - 7/14/2017

EVIO Labs Medford (pka Kenevir Research)
540 East Vilas Road, Suite F, Central Point, OR 97502
541-668-7444 / www.EVIOLabs.com

Quality Control

Batch: M17G007 - SOP.T.30.050 Prep for Cannabinoids

Blank(M17G007-BLK1)

Analyte	Result	LOQ	Units	%Recovery Limits	Extracted	Analyzed
THCA	< LOQ	0.0005	%		07/05/17 12:30	07/05/17 14:04
delta 9-THC	< LOQ	0.0005	%		07/05/17 12:30	07/05/17 14:04
delta 8-THC	< LOQ	0.0005	%		07/05/17 12:30	07/05/17 14:04
CBDA	< LOQ	0.0005	%		07/05/17 12:30	07/05/17 14:04
CBD	< LOQ	0.0005	%		07/05/17 12:30	07/05/17 14:04
CBN	< LOQ	0.0005	%		07/05/17 12:30	07/05/17 14:04
CBG	< LOQ	0.0005	%		07/05/17 12:30	07/05/17 14:04
CBC	< LOQ	0.0005	%		07/05/17 12:30	07/05/17 14:04

LCS(M17G007-BS1)

Analyte	% Recovery	LOQ	Units	%Recovery Limits	Extracted	Analyzed
THCA	98.0		%	80-120	07/05/17 12:30	07/05/17 14:04
delta 9-THC	95.2		%	80-120	07/05/17 12:30	07/05/17 14:04
CBDA	99.4		%	80-120	07/05/17 12:30	07/05/17 14:04
CBD	102		%	80-120	07/05/17 12:30	07/05/17 14:04

Batch: M17G013 - SOP.T.30.061 Pesticide Prep

Blank(M17G013-BLK1)

Analyte	Result	LOQ	Units	%Recovery Limits	Extracted	Analyzed
Abamectin	< LOQ	0.500	ppm		06/29/17 00:00	07/06/17 00:00
Acephate	< LOQ	0.400	ppm		06/29/17 00:00	07/06/17 00:00
Acequinocyl	< LOQ	2.00	ppm		06/29/17 00:00	07/06/17 00:00
Acetamiprid	< LOQ	0.200	ppm		06/29/17 00:00	07/06/17 00:00
Aldicarb	< LOQ	0.400	ppm		06/29/17 00:00	07/06/17 00:00
Azoxystrobin	< LOQ	0.200	ppm		06/29/17 00:00	07/06/17 00:00
Bifenazate	< LOQ	0.200	ppm		06/29/17 00:00	07/06/17 00:00
Bifenthrin	< LOQ	0.200	ppm		06/29/17 00:00	07/06/17 00:00
Boscalid	< LOQ	0.400	ppm		06/29/17 00:00	07/06/17 00:00
Carbaryl	< LOQ	0.200	ppm		06/29/17 00:00	07/06/17 00:00
Carbofuran	< LOQ	0.200	ppm		06/29/17 00:00	07/06/17 00:00
Chlorantraniliprole	< LOQ	0.200	ppm		06/29/17 00:00	07/06/17 00:00
Chlorfenapyr	< LOQ	1.00	ppm		06/29/17 00:00	07/06/17 00:00
Chlorpyrifos	< LOQ	0.200	ppm		06/29/17 00:00	07/06/17 00:00
Clofentezine	< LOQ	0.200	ppm		06/29/17 00:00	07/06/17 00:00
Cyfluthrin	< LOQ	1.00	ppm		06/29/17 00:00	07/06/17 00:00
Cypermethrin	< LOQ	1.00	ppm		06/29/17 00:00	07/06/17 00:00
Daminozide	< LOQ	1.00	ppm		06/29/17 00:00	07/06/17 00:00
DDVP (Dichlorvos)	< LOQ	1.00	ppm		06/29/17 00:00	07/06/17 00:00
Diazinon	< LOQ	0.200	ppm		06/29/17 00:00	07/06/17 00:00
Dimethoate	< LOQ	0.200	ppm		06/29/17 00:00	07/06/17 00:00
Ethoprophos	< LOQ	0.200	ppm		06/29/17 00:00	07/06/17 00:00
Etofenprox	< LOQ	0.400	ppm		06/29/17 00:00	07/06/17 00:00



Ian Riversong
 Laboratory Director - 7/14/2017

EVIO Labs Medford (pka Kenevir Research)
540 East Vilas Road, Suite F, Central Point, OR 97502
541-668-7444 / www.EVIOLabs.com

Quality Control

Batch: M17G013 - SOP.T.30.061 Pesticide Prep (Continued)

Blank(M17G013-BLK1)						
Analyte	Result	LOQ	Units	%Recovery Limits	Extracted	Analyzed
Etoxazole	< LOQ	0.200	ppm		06/29/17 00:00	07/06/17 00:00
Fenoxycarb	< LOQ	0.200	ppm		06/29/17 00:00	07/06/17 00:00
Fenpyroximate	< LOQ	0.400	ppm		06/29/17 00:00	07/06/17 00:00
Fipronil	< LOQ	0.400	ppm		06/29/17 00:00	07/06/17 00:00
Flonicamid	< LOQ	1.00	ppm		06/29/17 00:00	07/06/17 00:00
Fludioxonil	< LOQ	0.400	ppm		06/29/17 00:00	07/06/17 00:00
Hexythiazox	< LOQ	1.00	ppm		06/29/17 00:00	07/06/17 00:00
Imazalil	< LOQ	0.200	ppm		06/29/17 00:00	07/06/17 00:00
Imidacloprid	< LOQ	0.400	ppm		06/29/17 00:00	07/06/17 00:00
Kresoxim-methyl	< LOQ	0.400	ppm		06/29/17 00:00	07/06/17 00:00
Malathion	< LOQ	0.200	ppm		06/29/17 00:00	07/06/17 00:00
Metalaxyl	< LOQ	0.200	ppm		06/29/17 00:00	07/06/17 00:00
Methiocarb	< LOQ	0.200	ppm		06/29/17 00:00	07/06/17 00:00
Methomyl	< LOQ	0.400	ppm		06/29/17 00:00	07/06/17 00:00
Methyl parathion	< LOQ	0.200	ppm		06/29/17 00:00	07/06/17 00:00
MGK-264	< LOQ	0.200	ppm		06/29/17 00:00	07/06/17 00:00
Myclobutanil	< LOQ	0.200	ppm		06/29/17 00:00	07/06/17 00:00
Naled	< LOQ	0.500	ppm		06/29/17 00:00	07/06/17 00:00
Oxamyl	< LOQ	1.00	ppm		06/29/17 00:00	07/06/17 00:00
Paclobutrazol	< LOQ	0.400	ppm		06/29/17 00:00	07/06/17 00:00
Permethrins	< LOQ	0.200	ppm		06/29/17 00:00	07/06/17 00:00
Phosmet	< LOQ	0.200	ppm		06/29/17 00:00	07/06/17 00:00
Prallethrin	< LOQ	0.200	ppm		06/29/17 00:00	07/06/17 00:00
Propiconazole	< LOQ	0.400	ppm		06/29/17 00:00	07/06/17 00:00
Propoxur	< LOQ	0.200	ppm		06/29/17 00:00	07/06/17 00:00
Pyrethrins	< LOQ	1.00	ppm		06/29/17 00:00	07/06/17 00:00
Pyridaben	< LOQ	0.200	ppm		06/29/17 00:00	07/06/17 00:00
Spinosad	< LOQ	0.200	ppm		06/29/17 00:00	07/06/17 00:00
Spiromesifen	< LOQ	0.200	ppm		06/29/17 00:00	07/06/17 00:00
Spirotetramat	< LOQ	0.200	ppm		06/29/17 00:00	07/06/17 00:00
Spiroxamine	< LOQ	0.400	ppm		06/29/17 00:00	07/06/17 00:00
Tebuconazole	< LOQ	0.400	ppm		06/29/17 00:00	07/06/17 00:00
Thiacloprid	< LOQ	0.200	ppm		06/29/17 00:00	07/06/17 00:00
Thiamethoxam	< LOQ	0.200	ppm		06/29/17 00:00	07/06/17 00:00
Trifloxystrobin	< LOQ	0.200	ppm		06/29/17 00:00	07/06/17 00:00

LCS(M17G013-BS1)						
Analyte	% Recovery	LOQ	Units	%Recovery Limits	Extracted	Analyzed
Aldicarb	94.8	0.400	ppm	70-130	06/29/17 00:00	07/06/17 00:00
Bifenthrin	196	0.200	ppm	60-140	06/29/17 00:00	07/06/17 00:00
Cypermethrin	273	1.00	ppm	70-130	06/29/17 00:00	07/06/17 00:00



Ian Riversong
 Laboratory Director - 7/14/2017

EVIO Labs Medford (pka Kenevir Research)
540 East Vilas Road, Suite F, Central Point, OR 97502
541-668-7444 / www.EVIOLabs.com

Quality Control

Batch: M17G013 - SOP.T.30.061 Pesticide Prep (Continued)

LCS(M17G013-BS1)							
Analyte	% Recovery	LOQ	Units	%Recovery Limits	Extracted	Analyzed	
Etofenprox	109	0.400	ppm	60-140	06/29/17 00:00	07/06/17 00:00	
Fipronil	109	0.400	ppm	70-130	06/29/17 00:00	07/06/17 00:00	
Flonicamid	127	1.00	ppm	70-130	06/29/17 00:00	07/06/17 00:00	
Hexythiazox	123	1.00	ppm	70-130	06/29/17 00:00	07/06/17 00:00	
Methiocarb	173	0.200	ppm	70-130	06/29/17 00:00	07/06/17 00:00	
Methomyl	108	0.400	ppm	70-130	06/29/17 00:00	07/06/17 00:00	
Oxamyl	114	1.00	ppm	60-140	06/29/17 00:00	07/06/17 00:00	
Permethrins	147	0.200	ppm	70-130	06/29/17 00:00	07/06/17 00:00	
Pyridaben	110	0.200	ppm	70-130	06/29/17 00:00	07/06/17 00:00	
Thiacloprid	108	0.200	ppm	70-130	06/29/17 00:00	07/06/17 00:00	
Thiamethoxam	96.8	0.200	ppm	70-130	06/29/17 00:00	07/06/17 00:00	



Ian Riversong
Laboratory Director - 7/14/2017

EVIO Labs Medford (pka Kenevir Research)
540 East Vilas Road, Suite F, Central Point, OR 97502
541-668-7444 / www.EVIOLabs.com

Hawaiian Lights

Wilderville Farms, LLC

020-10020226685

Sample ID: M170003-01 METRC Batch #: 1A4010300001AF5000000154

Matrix: Useable Marijuana

Date Sampled: 06/29/17 17:00

Date Accepted: 06/29/17

Results Valid Until: 06/29/18

Batch ID: See Metrc ID

Batch Size: 10 lbs

Sampling Method/SOP: SOP.T.20.010

Terpene Analysis

Date/Time Extracted: 07/05/17 14:01

Analysis Method/SOP: SOP.T.40.050

Date/Time Analyzed: 07/06/17 14:18

Monoterpenes	Results in ppm	Monoterpenes	Results in ppm
(+) Terpinene	23.3	alpha-Pinene	368
alpha-Terpinene	17.8	beta-Myrcene	2660
beta-Pinene	627	Borneol	379
Camphene	118	Camphor	8.03
delta-3-Carene	18.0	d-Limonene	2940
Eucalyptol	1040	gamma-Terpinene	27.2
Geraniol	0.00	Isopulegol	23.6
Linalool	669	Ocimene	970
p-Cymene	0.00	Sabinene hydrate	83.8
Terpinolene	60.3		
Sesquiterpenes	Results in ppm	Sesquiterpenes	Results in ppm
alpha-Humulene	2250	beta-Caryophyllene	5810

ABOUT TERPENOIDS

Terpenoids, commonly referred to as simply "terpenes", are a class of compounds commonly found in plants, fungi and animals which are best known for their aromatic properties, attributable to the lightweight mono- and sesquiterpenoids. There are over 200 different terpenoids that have been identified in Cannabis, however many of these are in very trace concentrations. Terpenoids are not only responsible for many of the unique aromas of Cannabis, but research indicates that they may accentuate the effects of cannabinoids as well.

Our terpenoid analysis quantifies some of the most common terpenoids found in Cannabis sativa. Terpenes are generally divided into two chemical classifications based on size: Monoterpenoids and sesquiterpenoids.

Monoterpenoids:

Monoterpenoids are the smallest, most lightweight forms of terpenoids. Because they are so lightweight, they are highly volatile and tend to have strong aromas. Monoterpenoids, by definition, contain 10 carbons.

Monoterpenes are more volatile than sesquiterpenes; the aromas tend to be stronger and they are more prone to being lost during heating, drying, and oxidation. A high concentration of monoterpenoids in Cannabis could be an indicator that the material is relatively fresh and has not experienced significant degradation during storage.

Sesquiterpenoids:

The sesquiterpenoids are the next class of terpenoids after monoterpenoids, and, by definition, contain 15 carbons. They are also generally aromatic, though less so than monoterpenoids due to their increased weight and subsequent reduction in volatility. Sesquiterpenoids are left behind as monoterpenoids volatilize out of Cannabis while drying or during storage. High sesquiterpenoid content could be an indicator of aged or inadequately stored Cannabis.

<LOQ: Result is below the Limit of Quantitation (LOQ) - Compound Not Detected
Terpene Analysis is not ORELAP Accredited.

 **Ian Riversong**
Laboratory Director - 7/14/2017

EVIO Labs Medford (pka Kenevir Research)
540 East Vilas Road, Suite F, Central Point, OR 97502
541-668-7444 / www.EVIOLabs.com

Hawaiian Lights

Wilderville Farms, LLC

020-10020226685

Sample ID: M170003-01

METRC Batch #: 1A4010300001AF5000000154

Matrix: Useable Marijuana

Date Sampled: 06/29/17 17:00

Date Accepted: 06/29/17 14:57

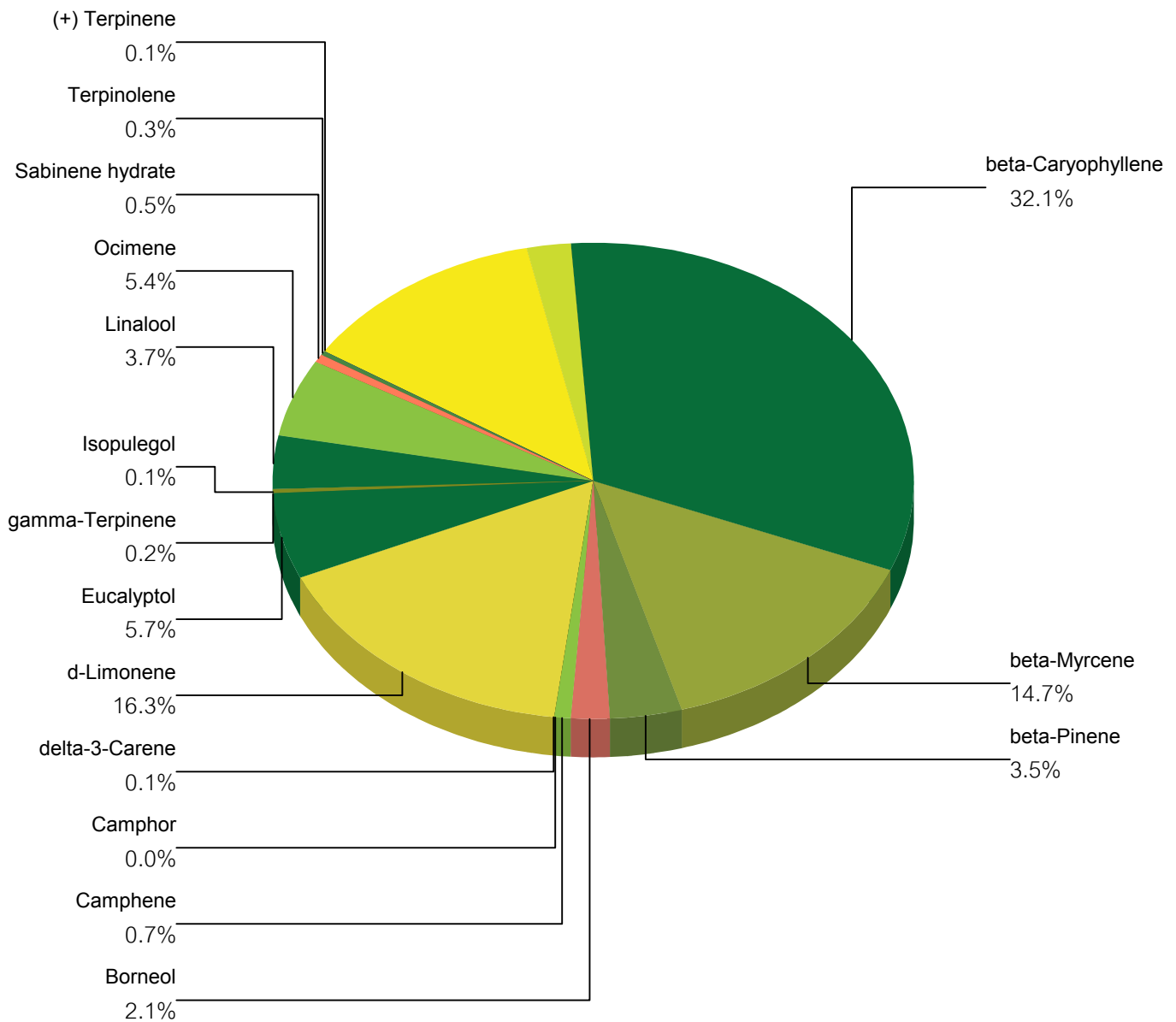
Results Valid Until: 06/29/18

Batch ID: See Metrc ID

Batch Size: 10 lbs

Sampling Method/SOP: SOP.T.20.010

Terpene Profile



Percentage of Total Terpenes Identified



Ian Riversong
Laboratory Director - 7/14/2017