

# Report: Evaluation Summary

OLCC License No. 10087092BDA | ORELAP ID. 4147

545 SW 2nd Street, Corvallis OR. 97333 | 541.257.5002 | services@preelab.com | Preelab.com

## Product Description

Client: **Oregon Genetics Inc.**

Product Name: **Sour Kush**

Matrix: Concentrate

Metrc Source ID: n/a

Metrc Package ID: n/a

License Number: n/a

Report ID: A1077-04

Date Collected: 2019-12-27

Date Received: 2019-12-27

Report Date: 2020-01-06

Tests Requested: Cannabinoid Potency Analysis  
Terpene Analysis

Notes: No special conditions were noted during the processing and testing of the sample.

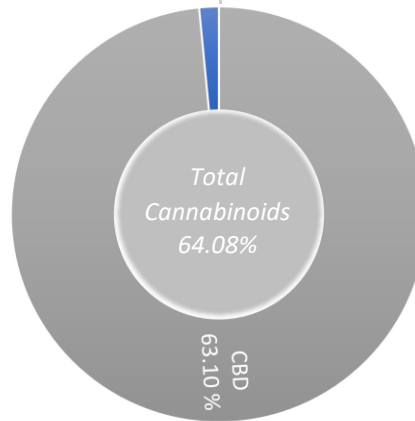
## Evaluation Summary

Moisture Analysis | Test Not Requested/Required

### Cannabinoid Potency Analysis

**Total THC \***  
**0.00 %**  
**0.0 mg/g**

**Total CBD \***  
**63.96 %**  
**639.6 mg/g**



Abrv.	Dry Wt. %	Dry Wt. mg/g
THCA	< LOQ	< LOQ
Δ-9-THC	< LOQ	< LOQ
CBDA	0.98 %	9.8 mg/g
CBD	63.10 %	631.0 mg/g
CBDVA	< LOQ	< LOQ
CBDV	< LOQ	< LOQ
CBGA	< LOQ	< LOQ
CBG	< LOQ	< LOQ
CBN	< LOQ	< LOQ
CBL	< LOQ	< LOQ
CBC	< LOQ	< LOQ
Δ-8-THC	< LOQ	< LOQ
THCV	< LOQ	< LOQ

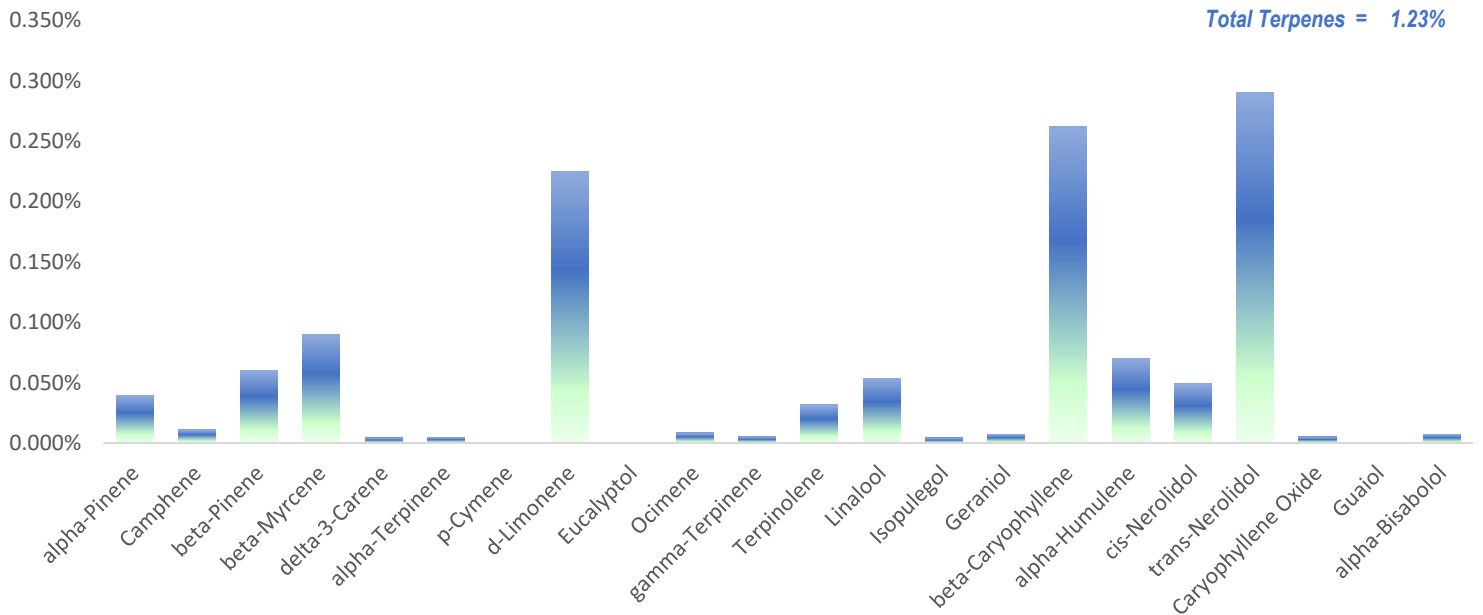
\* moisture compensated & adjusted for the loss of carboxylic acid group - OAR 333-064-0100

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Product Description		Evaluation Summary				
Client:	Oregon Genetics Inc.	Terpene Analysis	Compound	Dry Wt. %	Compound	Dry Wt. %
Product Name:	Sour Kush		alpha-Pinene	0.040%	Terpinolene	0.032%
Matrix:	Concentrate		Camphene	0.011%	Linalool	0.054%
Metrc ID:	n/a		beta-Pinene	0.060%	Isopulegol	0.004%
Lot Number:	n/a		beta-Myrcene	0.090%	Geraniol	0.007%
License Number:	0		delta-3-Carene	0.004%	beta-Caryophyllene	0.262%
Date Collected:	2019-12-27		alpha-Terpinene	0.005%	alpha-Humulene	0.070%
Date Received:	2019-12-27		p-Cymene	0.000%	cis-Nerolidol	0.049%
Report Date:	2020-01-06		d-Limonene	0.225%	trans-Nerolidol	0.290%
			Eucalyptol	0.000%	Caryophyllene Oxide	0.005%
			Ocimene	0.008%	Guaiol	0.000%
			gamma-Terpinene	0.005%	alpha-Bisabolol	0.007%



**Sour Kush has the highest concentration of the following terpene(s)...**

**trans-Nerolidol**

Nerolidol has a fresh bark or woody aroma. It can be found in jasmine, ginger, lavender, tea tree and lemon grass.



**beta-Caryophyllene**

Caryophyllene can be found at high concentrations in black pepper, cloves, and cinnamon. It has a spicy/peppery aroma.



**d-Limonene**

Found in lemon and orange peels. Limonene is characterized for having a lemon like aroma.



***Dear Oregon Genetics Inc.,***

PREE Laboratory received samples on 2019-12-27, which were collected on 2019-12-27 by Caleb Mata. The results in this report are only applicable for the samples listed in this report.

All analyses were performed in accordance with PREE Laboratory NELAP/TNI approved quality control system unless otherwise noted in the case narrative of this report. All quality control data is within the laboratory's predefined acceptance criteria unless otherwise noted in the case narrative of this report.

The testing methods used are of sufficient sensitivity to meet the compliance criteria set in OAR 333-007, however it is the responsibility of the client to utilize the data to comply with standards set in OAR 333-007.

If you have any questions regarding information in this report, please feel free to call 541-257-5002 or email the laboratory at services@preelab.com.



Sardar, Tamzid | Laboratory Director  
Corvallis, Oregon

## **Case Narrative**

This report presents the results of the analyses of the sample received on 2019-12-27 and assigned the Laboratory Number of - A1077-04. The subsequent data is only for the sample listed and parameters tested.

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All analyses were performed in accordance with PREE Laboratory's Quality Control Program. All QC requirements were met, except as noted below.

Analytical comments are noted on the Certificate of Analysis with data flags, and/or recorded below.

## **Notes:**

No special conditions were noted during the processing and testing of the sample.

# Report: Evaluation Detail



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<b>Moisture Analysis</b>	<b>Evaluation Detail</b>	
	Moisture Analysis	Test Not Requested/Required

<b>Cannabinoid Potency Analysis</b>	<b>Evaluation Detail</b>				
Product Name: <b>Sour Kush</b>	Cannabinoid Potency Analysis	Compound	Abbr.	Dry Wt. (%)	Dry Wt. RL (%)
Analysis Date: #N/A	<b>Total THC *</b>	Tetrahydro-cannabinolic acid	THCA	< LOQ	< LOQ 0.5 %
	<b>0.00 %</b>	Delta9 Tetrahydro-cannabinol	Δ-9-THC	< LOQ	< LOQ 0.5 %
	<b>0.0 mg/g</b>	Cannabidiolic acid	CBDA	0.98 %	9.8 0.5 %
		Cannabidiol	CBD	63.10 %	631.0 0.5 %
	<b>Total CBD *</b>	Cannabidivarinic Acid	CBDVA	< LOQ	< LOQ 0.5 %
	<b>63.96 %</b>	Cannabidivarin	CBDV	< LOQ	< LOQ 0.5 %
	<b>639.6 mg/g</b>	Cannabigerolic acid	CBGA	< LOQ	< LOQ 0.5 %
		Cannabigerol	CBG	< LOQ	< LOQ 0.5 %
		Cannabinol	CBN	< LOQ	< LOQ 0.5 %
		Cannabicyclol	CBL	< LOQ	< LOQ 0.5 %
		Cannabichromene	CBC	< LOQ	< LOQ 0.5 %
		Delta8 Tetrahydro-cannabinol	Δ-8-THC	< LOQ	< LOQ 0.5 %
		Tetrahydrocannabivarin	THCV	< LOQ	< LOQ 0.5 %

\* moisture compensated & adjusted for the loss of carboxylic acid group - OAR 333-064-0100

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## Terpene Analysis

Product Name: **Sour Kush**

Analysis Date: 2020-12-29

## Evaluation Detail

Terpene Analysis	Compound	Dry Wt. %	Dry Wt. (mg/g)	RL %
	alpha-Pinene	0.040%	0.396	0.002%
	Camphene	0.011%	0.112	0.002%
	beta-Pinene	0.060%	0.601	0.002%
	beta-Myrcene	0.090%	0.901	0.002%
	delta-3-Carene	0.004%	0.044	0.002%
	alpha-Terpinene	0.005%	0.048	0.002%
	p-Cymene	0.000%	0.000	0.002%
	d-Limonene	0.225%	2.248	0.002%
	Eucalyptol	0.000%	0.000	0.002%
	Ocimene	0.008%	0.084	0.002%
	gamma-Terpinene	0.005%	0.053	0.002%
	Terpinolene	0.032%	0.316	0.002%
	Linalool	0.054%	0.537	0.002%
	Isopulegol	0.004%	0.043	0.002%
	Geraniol	0.007%	0.074	0.002%
	beta-Caryophyllene	0.262%	2.623	0.002%
	alpha-Humulene	0.070%	0.697	0.002%
	cis-Nerolidol	0.049%	0.489	0.002%
	trans-Nerolidol	0.290%	2.904	0.002%
	Caryophyllene Oxide	0.005%	0.051	0.002%
	Guaiol	0.000%	0.000	0.002%
	alpha-Bisabolol	0.007%	0.074	0.002%
	<b>Total Terpenes</b>	<b>1.23%</b>	<b>12.294 mg/g</b>	

# Report: Quality Check



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<b>Moisture Analysis</b>	<b>Quality Control Detail</b>					
	Moisture Analysis					
<b>Cannabinoid Potency Analysis</b>	<b>Quality Control Detail</b>					
Analysis Date: #N/A	Cannabinoid Potency Analysis	Negative Control (P-BL)	Positive Control (LCS)	Expected Value (%)	Tested Value (%)	Pass Criteria
	Tetrahydro-cannabinolic acid	○		< 0.1%	< 0.1%	< 0.1%
	Delta9 Tetrahydro-cannabinol	○		< 0.1%	< 0.1%	< 0.1%
	Cannabidiolic acid	○		< 0.1%	< 0.1%	< 0.1%
	Cannabidiol	○		< 0.1%	< 0.1%	< 0.1%
	Cannabinol	○		< 0.1%	< 0.1%	< 0.1%
	Tetrahydro-cannabinolic acid		●	100.0%	91.3%	80%-120%
	Delta9 Tetrahydro-cannabinol		●	100.0%	93.4%	80%-120%
	Cannabidiolic acid		●	100.0%	87.5%	80%-120%
	Cannabidiol		●	100.0%	86.2%	80%-120%
	Cannabinol		●	100.0%	84.7%	80%-120%

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## Terpene Analysis

Analysis Date: 2020-12-29

## Quality Control Detail

Terpene Analysis	Negative Control	Expected Value (%)	Tested Value (%)	Pass Criteria
alpha-Pinene	o	0.000%	0.000%	< 0.010%
Camphene	o	0.000%	0.000%	< 0.010%
beta-Pinene	o	0.000%	0.000%	< 0.010%
beta-Myrcene	o	0.000%	0.000%	< 0.010%
delta-3-Carene	o	0.000%	0.000%	< 0.010%
alpha-Terpinene	o	0.000%	0.000%	< 0.010%
p-Cymene	o	0.000%	0.000%	< 0.010%
d-Limonene	o	0.000%	0.000%	< 0.010%
Eucalyptol	o	0.000%	0.000%	< 0.010%
Ocimene	o	0.000%	0.000%	< 0.010%
gamma-Terpinene	o	0.000%	0.000%	< 0.010%
Terpinolene	o	0.000%	0.000%	< 0.010%
Linalool	o	0.000%	0.000%	< 0.010%
Isopulegol	o	0.000%	0.000%	< 0.010%
Geraniol	o	0.000%	0.000%	< 0.010%
beta-Caryophyllene	o	0.000%	0.000%	< 0.010%
alpha-Humulene	o	0.000%	0.000%	< 0.010%
cis-Nerolidol	o	0.000%	0.000%	< 0.010%
trans-Nerolidol	o	0.000%	0.000%	< 0.010%
Caryophyllene Oxide	o	0.000%	0.000%	< 0.010%
Guaiol	o	0.000%	0.000%	< 0.010%
alpha-Bisabolol	o	0.000%	0.000%	< 0.010%



## **Definitions**

- PQL: Practical Quantitation Limit, this is the smallest amount the analyte can be measured at without estimation.
- Blank: A quality control sample that is free of the analyte being measured.
- Positive Control: A quality control sample with a known amount of the analyte used to demonstrate accuracy. The result is often expressed as a percent recovery.
- Field Duplicate: A second sample collected in the field using the same sampling method as the primary sample. The purpose is to demonstrate that the batch sampled is uniform.
- Action Limit: Analyte levels set by the state of Oregon indicating that follow-up action is necessary.
- Accreditation Status: Indication that the methodology, calibration, and laboratory QC used by PREE Laboratory for an analyte has been evaluated by a third-party auditor and determined to be accurate, precise, and selective.
- ppm: parts per million, equivalent to mg/g and mg/L.
- % Rec.: Percentage Recovery =  $[(\text{Amount measured}) / (\text{Known amount})] * 100$
- ND: The sample result is less than the PQL.

## **Calculations**

- Cannabinoid Potency :  
Wet WT% =  $(\text{Exported concentration ppm}) \times (\text{Dilution}) \times (\text{Extraction Vol./Wet wt mg}) \times 100$   
Total THC% =  $(\% \text{THCA}) \times 0.877 + (\% \text{THC})$   
Total CBD% =  $(\% \text{CBDA}) \times 0.877 + (\% \text{CBD})$   
Total THC (Dry WT)% =  $\% \text{ total THC(wet)} / [1 - (\% \text{moisture}/100)]$   
Total CBD (Dry WT)% =  $\% \text{ total CBD(wet)} / [1 - (\% \text{moisture}/100)]$