

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: **KLR Farms**

Product Name: **KLR-#4 'Sour Grapes'**

Matrix: Hemp

Metrc Source ID: n/a

Metrc Package ID: n/a

License Number: FALSE

Report ID: A1174-06

Date Collected: 2020-01-28

Date Received: 2020-01-28

Report Date: 2020-02-03

Tests Requested: Moisture Analysis
Cannabinoid Potency Analysis

Notes: R&D sample results may not be used for compliance purposes.

Evaluation Summary

Moisture Analysis | Tested Value (%)

09.43 %

Cannabinoid Potency Analysis

Total THC *

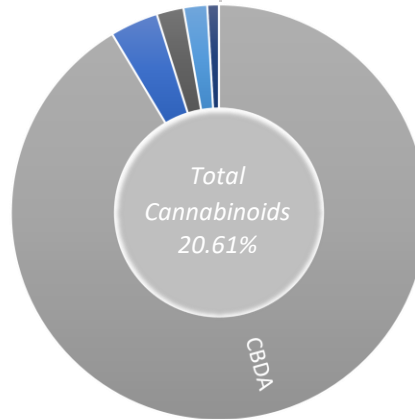
0.68 %

6.8 mg/g

Total CBD *

16.90 %

169.0 mg/g



Abrv.

Dry Wt. %

Dry Wt. mg/g

THCA

0.77 %

7.7 mg/g

Δ-9-THC

< LOQ

< LOQ

CBDA

18.84 %

188.4 mg/g

CBD

0.38 %

3.8 mg/g

CBDA

0.19 %

1.9 mg/g

CBDV

< LOQ

< LOQ

CBGA

0.43 %

4.3 mg/g

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

Dear KLR Farms,

PREE Laboratory received samples on 2020-01-28, which were collected on 2020-01-28 by Melissa McDougal. 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 2020-01-28 and assigned the Laboratory Number of - A1174-06. 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:

R&D sample results may not be used for compliance purposes.

Report: Evaluation Detail

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Moisture Analysis		Evaluation Detail		
Product Name:	KLR-#4 'Sour Grapes'	Moisture Analysis	Tested Value (Moisture %)	LOQ (%)
Analysis Date:	2020-01-29		9.43 %	0.01 %

Cannabinoid Potency Analysis		Evaluation Detail					
Product Name:	KLR-#4 'Sour Grapes'	Cannabinoid Potency Analysis	Compound	Abrv.	Dry Wt. (%)	Dry Wt.	RL (%)
Analysis Date:	2020-01-31						
		Total THC *	Tetrahydro-cannabinolic acid	THCA	0.77 %	7.7	0.1 %
		0.68 %	Delta9 Tetrahydro-cannabinol	Δ -9-THC	< LOQ	< LOQ	0.1 %
		6.8 mg/g	Cannabidiolic acid	CBDA	18.84 %	188.4	0.1 %
			Cannabidiol	CBD	0.38 %	3.8	0.1 %
		Total CBD *	Cannabidivarinic Acid	CBDVA	0.19 %	1.9	0.1 %
		16.90 %	Cannabidivarin	CBDV	< LOQ	< LOQ	0.1 %
		169.0 mg/g	Cannabigerolic acid	CBGA	0.43 %	4.3	0.1 %
			Cannabigerol	CBG	< LOQ	< LOQ	0.1 %
			Cannabinol	CBN	< LOQ	< LOQ	0.1 %
			Cannabicyclol	CBL	< LOQ	< LOQ	0.1 %
			Cannabichromene	CBC	< LOQ	< LOQ	0.1 %
			Delta8 Tetrahydro-cannabinol	Δ -8-THC	< LOQ	< LOQ	0.1 %
			Tetrahydrocannabivarin	THCV	< LOQ	< LOQ	0.1 %

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

Report: Quality Check



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Moisture Analysis		Quality Control Detail					
Analysis Date:	2020-01-29	Moisture Analysis	Negative Control	Positive Control	Expected Value (%)	Tested Value (%)	Pass Criteria
			○		0.0%	1.2%	± 2.5%
				●	100.0%	100.0%	± 2.5%

Cannabinoid Potency Analysis		Quality Control Detail					
Analysis Date:	2020-01-31	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%	112.1%	80%-120%
		Delta9 Tetrahydro-cannabinol		●	100.0%	114.6%	80%-120%
		Cannabidiolic acid		●	100.0%	108.0%	80%-120%
		Cannabidiol		●	100.0%	117.0%	80%-120%
		Cannabinol		●	100.0%	116.4%	80%-120%

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)% = $\% \text{ total CBD(wet)} / [1 - (\% \text{moisture}/100)]$