

Report: COA Evaluation Summary

OLCC License No. 10087092BDA | ORELAP ID. 4147

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

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Product Description		Evaluation Summary				
Client:	KMS Ag Consulting	Moisture Analysis		Tested Value (%)	Pass Criteria (%)	
Product Name:	Oreoz	Pass		11.41 %	< 15.0 %	
Harvest Lot:	O11172022	Cannabinoid Potency Analysis		Abrv.	Dry Wt. %	Dry Wt. mg/g
Matrix:	Cannabinoid Plant	Total THC *	Total CBD *	THCA	25.68 %	256.8 mg/g
Metc Source ID:	n/a			Δ-9-THC	0.23 %	2.3 mg/g
Metc Package ID:	n/a	22.75 %	< LOQ	Δ-8-THC	< LOQ	< LOQ
License Number:		227.5 mg/g	< LOQ	THCV	< LOQ	< LOQ
Date Collected:	2022-11-17	<p style="text-align: center;">Total Cannabinoids 27.37%</p>		CBDA	< LOQ	< LOQ
Date Received:	2022-11-17			CBG	0.19 %	1.9 mg/g
Report Date:	2022-11-19			CBDVA	< LOQ	< LOQ
Report ID:	A8190-04			CBDV	< LOQ	< LOQ
Tests Requested:	Moisture Analysis Cannabinoid Potency Analysis			CBN	< LOQ	< LOQ
				CBL	< LOQ	< LOQ
				CBC	< LOQ	< LOQ

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

Report: Case Narrative

This certificate of analysis is prepared for...

KMS Ag Consulting

34081 Excor Rd. SW Albany OR 97321

This report presents the analytical findings for the sample collected on 2022-11-17 by Emilie Hoss and received by PREE Laboratory on 2022-11-17. The sample was assigned a laboratory ID of A8190-04. The results in this report only apply to sample A8190-04.

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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.

All analyses were performed in accordance with PREE Laboratory's NELAP/TNI approved quality control system and all quality control data was within the laboratory's predefined acceptance criteria unless otherwise noted in the case narrative of this report. General comments are also recorded below.

Notes:

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



Newkirk, Carson | Laboratory Manager
PREE South: Corvallis, Oregon



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

Report: Evaluation Detail

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Moisture Analysis		Evaluation Detail				
Product Name:	Oreoz	Moisture Analysis	Tested Value (Moisture %)	Pass Criteria (%)	LOQ (%)	Status Pass/Unsatisfactory
Analysis Date:	2022-11-18		11.41 %	< 15.0 %	0.01 %	Pass
Testing Batch ID:	M221118B					
Testing Method:	LSOP #301 Moisture Analysis					

Cannabinoid Potency Analysis		Evaluation Detail					
Product Name:	Oreoz	Cannabinoid Potency Analysis	Compound	Abrv.	Dry Wt. (%)	Dry Wt. (mg/g)	RL (%)
Analysis Date:	2022-11-18	Total THC *	Tetrahydro-cannabinolic acid	THCA	25.68 %	256.8	0.15
Testing Batch ID:	POR221118A	22.75 %	Delta9 Tetrahydro-cannabinol	Δ-9-THC	0.23 %	2.3	0.15
Testing Method:	LSOP #303 Cannabinoid Quantification	227.5 mg/g	Delta8 Tetrahydro-cannabinol	Δ-8-THC	< LOQ	< LOQ	0.15
			Tetrahydrocannabivarin	THCV	< LOQ	< LOQ	0.15
		Total CBD *	Cannabidiolic acid	CBDA	< LOQ	< LOQ	0.15
		< LOQ	Cannabidiol	CBD	< LOQ	< LOQ	0.15
		< LOQ	Cannabigerolic acid	CBGA	1.27 %	12.7	0.15
			Cannabigerol	CBG	0.19 %	1.9	0.15
			Cannabidivarinic acid	CBDVA	< LOQ	< LOQ	0.15
			Cannabidivarin	CBDV	< LOQ	< LOQ	0.15
			Cannabinol	CBN	< LOQ	< LOQ	0.15
			Cannabicyclol	CBL	< LOQ	< LOQ	0.15
			Cannabichromene	CBC	< LOQ	< LOQ	0.15

Note: Accreditation for THCV, CBGA, CBG, CBDVA, CBDV, CBL, CBC, CBN is not offered by ORELAP and therefore are not accredited tests.

* 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:	2022-11-18	Moisture Analysis		MB	LCS	Expected Value (%)	Tested Value (%)	Pass Criteria
Testing Batch ID:	M221118B			○		0.0%	1.4%	± 2.5%
					●	100.0%	100.0%	± 2.5%
Cannabinoid Potency Analysis		Quality Control Detail						
Analysis Date:	2022-11-18	Cannabinoid Potency Analysis		MB	LCS	Expected Value (%)	Tested Value (%)	Pass Criteria
Testing Batch ID:	POR221118A	Tetrahydro-cannabinolic acid		○		< 0.1%	< 0.1%	< 0.1%
		Delta9 Tetrahydro-cannabinol		○		< 0.1%	< 0.1%	< 0.1%
		Delta8 Tetrahydro-cannabinol		○		< 0.1%	< 0.1%	< 0.1%
		Cannabidiolic acid		○		< 0.1%	< 0.1%	< 0.1%
		Cannabidiol		○		< 0.1%	< 0.1%	< 0.1%
		Tetrahydro-cannabinolic acid			●	100.0%	102.7%	± 10%
		Delta9 Tetrahydro-cannabinol			●	100.0%	104.2%	± 10%
		Delta8 Tetrahydro-cannabinol			●	100.0%	106.3%	± 10%
		Cannabidiolic acid			●	100.0%	104.2%	± 10%
		Cannabidiol			●	100.0%	107.5%	± 10%

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Definitions

- Limit of Quantitation (LOQ) : The minimum level, concentration, or quantity of a target analyte that can be reported with a specific degree of confidence.
- Method Blank (MB) : A quality control sample that is free of the analyte being measured.
- Laboratory Control Sample (LCS) : A quality control sample with a known amount of the analyte used to demonstrate accuracy.
- Field Duplicate : A second sample collected in the field using the same sampling method as the primary sample.
- Action Limit : Analyte levels set by the state of Oregon (OAR 333-007) indicating that follow-up action is necessary.
- ppm : parts per million, equivalent to 1 µg/g and 1 µg/L or 0.001 mg/g and 0.001 mg/L
- COA : Certificate of Analysis.
- Report Flag (A) : Compound tested over 100% or 1000 mg/g. The test result is within the method uncertainty and instrument result is not above the upper limit of quantitation. Value will be adjusted down to 100% or 1000 mg/mg in the reporting process.
- Report Flag (B) : Blank contamination - The analyte was detected above one-half the reporting limit in an associated blank.
- Report Flag (E) : Compound tested above the upper limit of quantitation.
- Report Flag (Q) : One or more quality control criteria (for example, LCS recovery, surrogate spike recovery) failed.

Calculations

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

Disclaimers

- Disposal : All marijuana and hemp products received by PREE will be disposed of following the OLCC's rules for Marijuana Waste Management, regardless of product type, unless PREE is given specific disposal instructions for a product based on test results from state regulatory agencies.