

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

Client: **KMS Ag Consulting**

Product Name: **CBG**

Harvest Lot: n/a

Matrix: Hemp Plant

Metrc Source ID: n/a

Metrc Package ID: n/a

License Number: n/a

Report ID: A2282-03

Date Collected: 2020-10-06

Date Received: 2020-10-06

Report Date: 2020-10-08

Tests Requested: Moisture Analysis
Cannabinoid Potency Analysis

CBG

Evaluation Summary

Moisture Analysis

Tested Value (%)

10.10 %

Cannabinoid Potency Analysis

Abv.

Dry Wt. %

Dry Wt. mg/g

Total THC *

Total CBD *

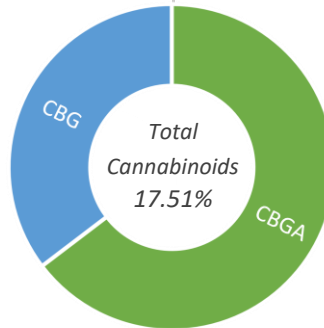
< LOQ

< LOQ

< LOQ

< LOQ

THCA	< LOQ	< LOQ
Δ-9-THC	< LOQ	< LOQ
Δ-8-THC	< LOQ	< LOQ
THCV	< LOQ	< LOQ
CBDA	< LOQ	< LOQ
CBD	< LOQ	< LOQ
CBGA	11.32 %	113.2 mg/g
CBG	6.19 %	61.9 mg/g
CBDVA	< LOQ	< LOQ
CBDV	< LOQ	< LOQ
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 2020-10-06 by Emilie Hoss and received by PREE Laboratory on 2020-10-06. The sample was assigned a laboratory ID of A2282-03. The results in this report only apply to sample A2282-03.

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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.



Sardar, Tamzid M. | Laboratory Director
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: CBG	Moisture Analysis	Tested Value (Moisture %)	LOQ (%)
Analysis Date: 2020-10-06		10.10 %	0.01 %
Testing Batch ID: V840			
Testing Method: LSOP #301 Moisture Analysis			

Cannabinoid Potency Analysis	Evaluation Detail					
Product Name: CBG	Cannabinoid Potency Analysis	Compound	Abrv.	Dry Wt. (%)	Dry Wt. (mg/g)	RL (%)
Analysis Date: 2020-10-06	Total THC *	Tetrahydro-cannabinolic acid	THCA	< LOQ	< LOQ	0.1 %
Testing Batch ID: V840	< LOQ	Delta9 Tetrahydro-cannabinol	Δ-9-THC	< LOQ	< LOQ	0.1 %
Testing Method: LSOP #303 Cannabinoid Quantification	< LOQ	Delta8 Tetrahydro-cannabinol	Δ-8-THC	< LOQ	< LOQ	0.1 %
		Tetrahydrocannabivarin	THCV	< LOQ	< LOQ	0.1 %
	Total CBD *	Cannabidiolic acid	CBDA	< LOQ	< LOQ	0.1 %
	< LOQ	Cannabidiol	CBD	< LOQ	< LOQ	0.1 %
	< LOQ	Cannabigerolic acid	CBGA	11.32 %	113.2	0.1 %
		Cannabigerol	CBG	6.19 %	61.9	0.1 %
		Cannabidivarinic acid	CBDVA	< LOQ	< LOQ	0.1 %
		Cannabidivarin	CBDV	< LOQ	< LOQ	0.1 %
		Cannabinol	CBN	< LOQ	< LOQ	0.1 %
		Cannabicyclol	CBL	< LOQ	< LOQ	0.1 %
		Cannabichromene	CBC	< LOQ	< LOQ	0.1 %

Note: Accreditation for Δ-8-THC, 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: 2020-10-06	Moisture Analysis		MB	LCS	Expected Value (%)	Tested Value (%)	Pass Criteria
Testing Batch ID: V840			○		0.0%	1.2%	± 2.5%
				●	100.0%	0.0%	± 2.5%

Cannabinoid Potency Analysis	Quality Control Detail						
Analysis Date: 2020-10-06	Cannabinoid Potency Analysis		MB	LCS	Expected Value (%)	Tested Value (%)	Pass Criteria
Testing Batch ID: V840	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%
	Tetrahydro-cannabinolic acid			●	100.0%	99.7%	80-120%
	Delta9 Tetrahydro-cannabinol			●	100.0%	103.3%	80-120%
	Cannabidiolic acid			●	100.0%	97.6%	80-120%
	Cannabidiol			●	100.0%	100.8%	80-120%

Note: Accreditation for Δ-8-THC, THCV, CBGA,CBG, CBDVA, CBDV, CBL, CBC, CBN is not offered by ORELAP and therefore are not accredited tests.

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.

Calculations

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