

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: **Suver Haze**

Harvest Lot: n/a

Matrix: Cannabis Plant

Metrc Source ID: n/a

Metrc Package ID: n/a

License Number: n/a

Report ID: A2335-02

Date Collected: 2020-10-13

Date Received: 2020-10-13

Report Date: 2020-10-16

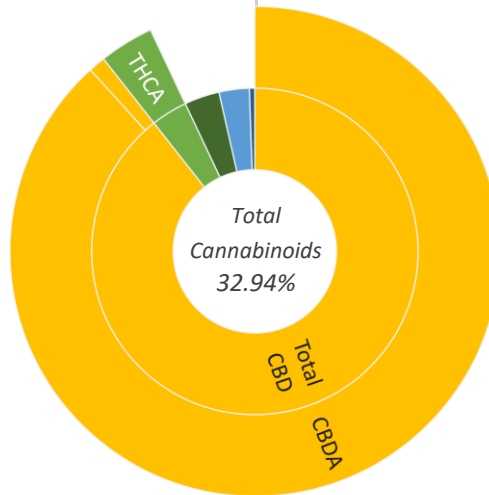
Tests Requested: Moisture Analysis
Cannabinoid Potency Analysis
Pesticide Analysis

Suver Haze

Evaluation Summary

Moisture Analysis	Tested Value (%)	Pass Criteria (%)
Pass	9.96 %	< 15.0 %

Cannabinoid Potency Analysis		Abrv.	Dry Wt. %	Dry Wt. mg/g
Total THC * 1.04 % 10.4 mg/g	Total CBD * 25.87 % 258.7 mg/g	THCA	1.19 %	11.9 mg/g
		Δ-9-THC	< LOQ	< LOQ
		Δ-8-THC	< LOQ	< LOQ
		THCV	0.99 %	9.9 mg/g
		CBDA	29.08 %	290.8 mg/g
		CBD	0.37 %	3.7 mg/g
		CBGA	1.14 %	11.4 mg/g
		CBG	< LOQ	< LOQ
		CBDVA	0.18 %	1.8 mg/g
		CBDV	< LOQ	< LOQ
CBN	< LOQ	< LOQ		
CBL	< LOQ	< LOQ		
CBC	< LOQ	< LOQ		



Pesticide Analysis	Pesticide Status
Pass	No Pesticides Were Detected above Oregon's action limit as stated in OAR 333-007-0400.

* 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 2020-10-13 by Emilie Hoss and received by PREE Laboratory on 2020-10-13. The sample was assigned a laboratory ID of A2335-02. The results in this report only apply to sample A2335-02.

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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:	Suver Haze	Moisture Analysis	Tested Value (Moisture %)	Pass Criteria (%)	LOQ (%)	Status Pass/Unsatisfactory
Analysis Date:	2020-10-14		9.96 %	< 15.0 %	0.01 %	Pass
Testing Batch ID:	V852					
Testing Method:	LSOP #301 Moisture Analysis					

Cannabinoid Potency Analysis		Evaluation Detail					
Product Name:	Suver Haze	Cannabinoid Potency Analysis	Compound	Abv.	Dry Wt. (%)	Dry Wt. (mg/g)	RL (%)
Analysis Date:	1900-01-00	Total THC *	Tetrahydro-cannabinolic acid	THCA	1.19 %	11.9	0.1 %
Testing Batch ID:	V853,852,851,840	1.04 %	Delta9 Tetrahydro-cannabinol	Δ-9-THC	< LOQ	< LOQ	0.1 %
Testing Method:	LSOP #303 Cannabinoid Quantification	10.4 mg/g	Delta8 Tetrahydro-cannabinol	Δ-8-THC	< LOQ	< LOQ	0.1 %
			Tetrahydrocannabivarin	THCV	0.99 %	9.9	0.1 %
		Total CBD *	Cannabidiolic acid	CBDA	29.08 %	290.8	0.1 %
		25.87 %	Cannabidiol	CBD	0.37 %	3.7	0.1 %
		258.7 mg/g	Cannabigerolic acid	CBGA	1.14 %	11.4	0.1 %
			Cannabigerol	CBG	< LOQ	< LOQ	0.1 %
			Cannabidivarinic acid	CBDVA	0.18 %	1.8	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

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Pesticide Analysis

Product Name: **Suver Haze**

Analysis Date: 2020-10-15

Testing Batch ID: V854,853,852,851

Testing Method: *LSOP #307 Pesticides by LCMS/MS*

Evaluation Detail

Pesticide Name	Tested Value (ppm)	Pass Criteria (ppm)	LOQ (ppm)	Status Pass/Unsatisfactory
Abamectin	< LOQ	0.50	0.10	Pass
Acephate	< LOQ	0.40	0.02	Pass
Acequinocyl	< LOQ	2.00	0.10	Pass
Acetamiprid	< LOQ	0.20	0.02	Pass
Aldicarb	< LOQ	0.40	0.02	Pass
Azoxystrobin	< LOQ	0.20	0.02	Pass
Bifenazate	< LOQ	0.20	0.02	Pass
Bifenthrin	< LOQ	0.20	0.10	Pass
Boscalid	< LOQ	0.40	0.02	Pass
Carbaryl	< LOQ	0.20	0.02	Pass
Carbofuran	< LOQ	0.20	0.02	Pass
Chlorantraniliprole	< LOQ	0.20	0.02	Pass
Chlorfenapyr	< LOQ	1.00	0.50	Pass
Chlorpyrifos	< LOQ	0.20	0.02	Pass
Clofentezine	< LOQ	0.20	0.10	Pass
Cyfluthrin	< LOQ	1.00	0.50	Pass
Cypermethrin	< LOQ	1.00	0.50	Pass
Daminozide	< LOQ	1.00	0.10	Pass
Diazinon	< LOQ	0.20	0.02	Pass
Dichlorvos	< LOQ	1.00	0.10	Pass
Dimethoate	< LOQ	0.20	0.02	Pass
Ethoprophos	< LOQ	0.20	0.02	Pass
Etofenprox	< LOQ	0.40	0.10	Pass
Etoxazole	< LOQ	0.20	0.02	Pass
Fenoxycarb	< LOQ	0.20	0.02	Pass
Fenpyroximate	< LOQ	0.40	0.10	Pass
Fipronil	< LOQ	0.40	0.02	Pass
Flonicamid	< LOQ	1.00	0.02	Pass
Fludioxonil	< LOQ	0.40	0.10	Pass
Hexythiazox	< LOQ	1.00	0.02	Pass
Imazalil	< LOQ	0.20	0.02	Pass
Imidacloprid	< LOQ	0.40	0.02	Pass
Kresoxim-methyl	< LOQ	0.40	0.10	Pass

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Report: Evaluation Detail

Pesticide Analysis

Evaluation Detail

Pesticide Name	Tested Value (ppm)	Pass Criteria (ppm)	LOQ (ppm)	Status Pass/Unsatisfactory
Malathion	< LOQ	0.20	0.02	Pass
Metalaxyl	< LOQ	0.20	0.02	Pass
Methiocarb	< LOQ	0.20	0.02	Pass
Methomyl	< LOQ	0.40	0.02	Pass
Methyl-Parathion	< LOQ	0.20	0.10	Pass
MGK-264	< LOQ	0.20	0.10	Pass
Myclobutanil	< LOQ	0.20	0.10	Pass
Naled	< LOQ	0.50	0.02	Pass
Oxamyl	< LOQ	1.00	0.02	Pass
Paclobutrazol	< LOQ	0.40	0.02	Pass
Permethrins	< LOQ	0.20	0.10	Pass
Phosmet	< LOQ	0.20	0.02	Pass
Piperonyl butoxide	< LOQ	2.00	0.02	Pass
Prallethrin	< LOQ	0.20	0.10	Pass
Propiconazole	< LOQ	0.40	0.10	Pass
Propoxur	< LOQ	0.20	0.02	Pass
Pyrethrins	< LOQ	1.00	0.50	Pass
Pyridaben	< LOQ	0.20	0.02	Pass
Spinosad	< LOQ	0.20	0.02	Pass
Spiromesifen	< LOQ	0.20	0.10	Pass
Spirotetramat	< LOQ	0.20	0.02	Pass
Spiroxamine	< LOQ	0.40	0.02	Pass
Tebuconazole	< LOQ	0.40	0.02	Pass
Thiacloprid	< LOQ	0.20	0.02	Pass
Thiamethoxam	< LOQ	0.20	0.02	Pass
Trifloxystrobin	< LOQ	0.20	0.02	Pass

Report: Quality Check



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Moisture Analysis	Quality Control Detail						
Analysis Date: 2020-10-14	Moisture Analysis		MB	LCS	Expected Value (%)	Tested Value (%)	Pass Criteria
Testing Batch ID: V852			○		0.0%	1.4%	± 2.5%
				●	100.0%	101.2%	± 2.5%
Cannabinoid Potency Analysis	Quality Control Detail						
Analysis Date: 1900-01-00	Cannabinoid Potency Analysis		MB	LCS	Expected Value (%)	Tested Value (%)	Pass Criteria
Testing Batch ID: V853,852,851,840	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%	110.5%	80-120%
	Delta9 Tetrahydro-cannabinol			●	100.0%	99.3%	80-120%
	Cannabidiolic acid			●	100.0%	105.6%	80-120%
	Cannabidiol			●	100.0%	101.9%	80-120%

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Pesticide Analysis

Analysis Date: 2020-10-15

Testing Batch ID: V854,853,852,851

Quality Control Detail

Pesticide Name	MB	Expected Value (ppm)	Tested Value (ppm)	Pass Criteria (ppm)
Abamectin	o	< 0.1	< 0.1	< 0.1
Acephate	o	< 0.02	< 0.02	< 0.02
Acequinocyl	o	< 0.1	< 0.1	< 0.1
Acetamiprid	o	< 0.02	< 0.02	< 0.02
Aldicarb	o	< 0.02	< 0.02	< 0.02
Azoxystrobin	o	< 0.02	< 0.02	< 0.02
Bifenazate	o	< 0.02	< 0.02	< 0.02
Bifenthrin	o	< 0.1	< 0.1	< 0.1
Boscalid	o	< 0.02	< 0.02	< 0.02
Carbaryl	o	< 0.02	< 0.02	< 0.02
Carbofuran	o	< 0.02	< 0.02	< 0.02
Chlorantraniliprole	o	< 0.02	< 0.02	< 0.02
Chlorfenapyr	o	< 0.5	< 0.5	< 0.5
Chlorpyrifos	o	< 0.02	< 0.02	< 0.02
Clofentezine	o	< 0.1	< 0.1	< 0.1
Cyfluthrin	o	< 0.5	< 0.5	< 0.5
Cypermethrin	o	< 0.5	< 0.5	< 0.5
Daminozide	o	< 0.1	< 0.1	< 0.1
Diazinon	o	< 0.02	< 0.02	< 0.02
Dichlorvos	o	< 0.1	< 0.1	< 0.1
Dimethoate	o	< 0.02	< 0.02	< 0.02
Ethoprophos	o	< 0.02	< 0.02	< 0.02
Etofenprox	o	< 0.1	< 0.1	< 0.1
Etoxazole	o	< 0.02	< 0.02	< 0.02
Fenoxycarb	o	< 0.02	< 0.02	< 0.02
Fenpyroximate	o	< 0.1	< 0.1	< 0.1
Fipronil	o	< 0.02	< 0.02	< 0.02
Flonicamid	o	< 0.02	< 0.02	< 0.02
Fludioxonil	o	< 0.1	< 0.1	< 0.1
Hexythiazox	o	< 0.02	< 0.02	< 0.02
Imazalil	o	< 0.02	< 0.02	< 0.02
Imidacloprid	o	< 0.02	< 0.02	< 0.02
Kresoxim-methyl	o	< 0.1	< 0.1	< 0.1

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Pesticide Name	MB	Expected Value (ppm)	Tested Value (ppm)	Pass Criteria (ppm)
Malathion	o	< 0.02	< 0.02	< 0.02
Metalaxyl	o	< 0.02	< 0.02	< 0.02
Methiocarb	o	< 0.02	< 0.02	< 0.02
Methomyl	o	< 0.02	< 0.02	< 0.02
Methyl-Parathion	o	< 0.1	< 0.1	< 0.1
MGK-264 I	o	< 0.1	< 0.1	< 0.1
MGK-264 II	o	< 0.1	< 0.1	< 0.1
Myclobutanil	o	< 0.1	< 0.1	< 0.1
Naled	o	< 0.02	< 0.02	< 0.02
Oxamyl	o	< 0.02	< 0.02	< 0.02
Paclobutrazol	o	< 0.02	< 0.02	< 0.02
Permethrin - trans	o	< 0.1	< 0.1	< 0.1
Permethrin - cis	o	< 0.1	< 0.1	< 0.1
Phosmet	o	< 0.02	< 0.02	< 0.02
Piperonyl butoxide	o	< 0.02	< 0.02	< 0.02
Prallethrin	o	< 0.1	< 0.1	< 0.1
Propiconazole	o	< 0.1	< 0.1	< 0.1
Propoxur	o	< 0.02	< 0.02	< 0.02
Pyrethrin - Cinerin	o	< 0.5	< 0.02	< 0.5
Pyrethrin - Pyrethrins/Jasmolin	o	< 0.5	< 0.5	< 0.5
Pyridaben	o	< 0.02	< 0.02	< 0.02
Spinosyn A	o	< 0.02	< 0.02	< 0.02
Spinosyn D	o	< 0.02	< 0.02	< 0.02
Spiromesifen	o	< 0.1	< 0.1	< 0.1
Spirotetramat	o	< 0.02	< 0.02	< 0.02
Spiroxamine	o	< 0.02	< 0.02	< 0.02
Tebuconazole	o	< 0.02	< 0.02	< 0.02
Thiacloprid	o	< 0.02	< 0.02	< 0.02
Thiamethoxam	o	< 0.02	< 0.02	< 0.02
Trifloxystrobin	o	< 0.02	< 0.02	< 0.02

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Pesticide Name	LCS	Expected Value (ppm)	Tested Value (ppm)	Pass Criteria (ppm)
Abamectin	•	1.00	1.011	0.6 - 1.4
Acephate	•	1.00	0.945	0.6 - 1.4
Acequinocyl	•	1.00	0.960	0.6 - 1.4
Acetamiprid	•	1.00	0.978	0.6 - 1.4
Aldicarb	•	1.00	0.983	0.6 - 1.4
Azoxystrobin	•	1.00	1.003	0.6 - 1.4
Bifenazate	•	1.00	1.007	0.6 - 1.4
Bifenthrin	•	1.00	0.945	0.6 - 1.4
Boscalid	•	1.00	0.997	0.6 - 1.4
Carbaryl	•	1.00	0.995	0.6 - 1.4
Carbofuran	•	1.00	0.984	0.6 - 1.4
Chlorantraniliprole	•	1.00	1.039	0.6 - 1.4
Chlorfenapyr	•	1.00	0.954	0.6 - 1.4
Chlorpyrifos	•	1.00	0.954	0.6 - 1.4
Clofentezine	•	1.00	0.977	0.6 - 1.4
Cyfluthrin	•	1.00	0.841	0.6 - 1.4
Cypermethrin	•	1.00	0.976	0.6 - 1.4
Daminozide	•	1.00	0.972	0.6 - 1.4
Diazinon	•	1.00	0.983	0.6 - 1.4
Dichlorvos	•	1.00	0.931	0.6 - 1.4
Dimethoate	•	1.00	1.035	0.6 - 1.4
Ethoprophos	•	1.00	0.978	0.6 - 1.4
Etofenprox	•	1.00	0.965	0.6 - 1.4
Etoxazole	•	1.00	0.962	0.6 - 1.4
Fenoxycarb	•	1.00	0.987	0.6 - 1.4
Fenpyroximate	•	1.00	0.982	0.6 - 1.4
Fipronil	•	1.00	1.012	0.6 - 1.4
Flonicamid	•	1.00	0.969	0.6 - 1.4
Fludioxonil	•	1.00	1.023	0.6 - 1.4
Hexythiazox	•	1.00	0.972	0.6 - 1.4
Imazalil	•	1.00	0.982	0.6 - 1.4
Imidacloprid	•	1.00	0.999	0.6 - 1.4
Kresoxim-methyl	•	1.00	1.010	0.6 - 1.4

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Malathion	•	1.00	0.980	0.6 - 1.4
Metalaxyl	•	1.00	1.007	0.6 - 1.4
Methiocarb	•	1.00	0.992	0.6 - 1.4
Methomyl	•	1.00	0.986	0.6 - 1.4
Methyl-Parathion	•	1.00	0.942	0.6 - 1.4
MGK-264 I	•	1.00	0.984	0.6 - 1.4
MGK-264 II	•	1.00	0.992	0.6 - 1.4
Myclobutanil	•	1.00	0.938	0.6 - 1.4
Naled	•	1.00	0.965	0.6 - 1.4
Oxamyl	•	1.00	1.009	0.6 - 1.4
Paclobutrazol	•	1.00	0.939	0.6 - 1.4
Permethrin - trans	•	1.00	0.983	0.6 - 1.4
Permethrin - cis	•	1.00	0.963	0.6 - 1.4
Phosmet	•	1.00	0.998	0.6 - 1.4
Piperonyl butoxide	•	1.00	0.964	0.6 - 1.4
Prallethrin	•	1.00	0.969	0.6 - 1.4
Propiconazole	•	1.00	0.938	0.6 - 1.4
Propoxur	•	1.00	1.002	0.6 - 1.4
Pyrethrin - Cinerin	•	1.00	0.952	0.6 - 1.4
Pyrethrin - Pyrethrins/Jasmolin	•	1.00	0.957	0.6 - 1.4
Pyridaben	•	1.00	0.973	0.6 - 1.4
Spinosyn A	•	1.00	0.953	0.6 - 1.4
Spinosyn D	•	1.00	0.941	0.6 - 1.4
Spiromesifen	•	1.00	0.953	0.6 - 1.4
Spirotetramat	•	1.00	0.960	0.6 - 1.4
Spiroxamine	•	1.00	1.066	0.6 - 1.4
Tebuconazole	•	1.00	0.945	0.6 - 1.4
Thiacloprid	•	1.00	0.973	0.6 - 1.4
Thiamethoxam	•	1.00	0.993	0.6 - 1.4
Trifloxystrobin	•	1.00	0.994	0.6 - 1.4

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