

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: **Greener Pacific**

Product Name: **Big E**

Matrix: Cannabis Plant

Metrc ID: n/a

Lot Number: 0

License Number: 0

Report ID: A0944-03

Date Collected: 2019-11-13

Date Received: 2019-11-13

Report Date: 2019-11-27

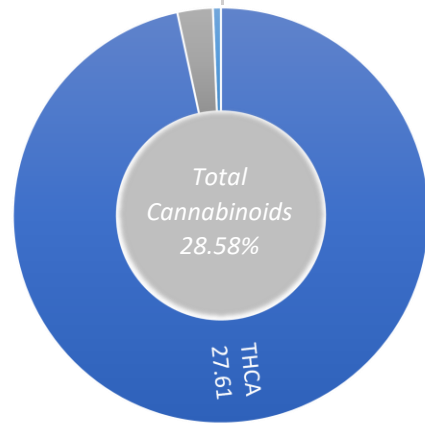
Tests Requested: Water Activity
Moisture Analysis
Cannabinoid Potency Analysis
Pesticide Analysis

Evaluation Summary

Water Activity	Tested Value (aw)	Pass Criteria (aw)	Status
	0.465 aw	< 0.65 aw	Pass

Moisture Analysis	Tested Value (%)	Pass Criteria (%)	Status
	8.58 %	< 15.0 %	Pass

Cannabinoid Potency Analysis		Abrv.	Dry Wt. %	Dry Wt. mg/g
Total THC *	Total CBD *	THCA	27.61	276.10
25 %	0.16 %	Δ-9-THC	0.79	7.86
250 mg/g	1.6 mg/g	CBDA	0.18	1.80
		CBD	< LOQ	< LOQ
		CBN	< LOQ	< LOQ
		CBDV	< LOQ	< LOQ



Notes: Pesticides: The initial calibration verification for the following analytes did not meet the acceptance criteria: Abamectin, Methiocarb, Permethrin and Pyrethrins.

Pesticide Analysis	Pesticide Status
	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

Dear Greener Pacific,

PREE Laboratory received samples on 2019-11-13, which were collected on 2019-11-13 by Robert Vingelen. 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 2019-11-13 and assigned the Laboratory Number of - A0944-03. The subsequent data is only for the sample listed and parameters tested.

This report shall not be reproduced, except in full, without written consent of PREE Laboratory. This report may not be altered in anyway by any other entity beside PREE Laboratory, and will be noted on this case narrative if modifications are made after the initial release.

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:

Pesticides: The initial calibration verification for the following analytes did not meet the acceptance criteria: Abamectin, Methiocarb, Permethrin and Pyrethrins.

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Water Activity		Evaluation Detail				
Product Name:	Big E	Water Activity	Tested Value (aw)	Pass Criteria (aw)	LOQ (aw)	Status Pass/Unsatisfactory
Analysis Date:	2019-11-14		0.465 aw	< 0.65 aw	0.001 aw	Pass

Moisture Analysis		Evaluation Detail				
Product Name:	Big E	Moisture Analysis	Tested Value (Moisture %)	Pass Criteria (%)	LOQ (%)	Status Pass/Unsatisfactory
Analysis Date:	2019-11-14		8.58 %	< 15.0 %	0.1 %	Pass

Cannabinoid Potency Analysis		Evaluation Detail					
Product Name:	Big E	Cannabinoid Potency Analysis	Compound	Abrv.	Dry Wt. (%)	Dry Wt. (mg/g)	RL (%)
Analysis Date:	2019-11-15	Total THC *	Tetrahydro-cannabinolic acid	THCA	27.61	276.1	0.1 %
		25 %	Delta-9 Tetrahydro-cannabinol	Δ-9-THC	0.79	7.9	0.1 %
		250 mg/g	Cannabidiolic acid	CBDA	0.18	1.8	0.1 %
			Cannabidiol	CBD	< LOQ	< LOQ	0.1 %
		Total CBD *	Cannabinol	CBN	< LOQ	< LOQ	0.1 %
		0.16 %	Cannabidivarin	CBDV	< LOQ	< LOQ	0.1 %
		1.6 mg/g					

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

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Pesticide Analysis

Product Name: **Big E**

Analysis Date: 2019-11-26
LCMS

Analysis Date: 2019-11-26
GCMS

Evaluation Detail

Pesticide Name	Tested Value (ppm)	Pass Criteria (ppm)	LOQ (ppm)	Status Pass/Unsatisfactory
Abamectin B1a	< LOQ	0.50	0.20	Pass
Acephate	< LOQ	0.40	0.20	Pass
Acequinocyl	< LOQ	2.00	0.20	Pass
Acetamiprid	< LOQ	0.20	0.20	Pass
Aldicarb	< LOQ	0.40	0.20	Pass
Azoxystrobin	< LOQ	0.20	0.20	Pass
Bifenazate	< LOQ	0.20	0.20	Pass
Bifenthrin	< LOQ	0.20	0.20	Pass
Boscalid	< LOQ	0.40	0.20	Pass
Carbaryl	< LOQ	0.20	0.20	Pass
Carbofuran	< LOQ	0.20	0.20	Pass
Chlorantraniliprole	< LOQ	0.20	0.20	Pass
Chlorfenapyr***	< LOQ	1.00	0.10	Pass
Chlorpyrifos	< LOQ	0.20	0.20	Pass
Clofentezine	< LOQ	0.20	0.20	Pass
Cyfluthrin***	< LOQ	1.00	0.10	Pass
Cypermethrin***	< LOQ	1.00	0.10	Pass
Daminozide	< LOQ	1.00	0.20	Pass
Diazinon	< LOQ	0.20	0.20	Pass
Dichlorvos	< LOQ	1.00	0.20	Pass
Dimethoate	< LOQ	0.20	0.20	Pass
Ethoprophos	< LOQ	0.20	0.20	Pass
Etofenprox	< LOQ	0.40	0.20	Pass
Etoxazole	< LOQ	0.20	0.20	Pass
Fenoxycarb	< LOQ	0.20	0.20	Pass
Fenpyroximate	< LOQ	0.40	0.20	Pass
Fipronil***	< LOQ	0.40	0.10	Pass
Flonicamid	< LOQ	1.00	0.20	Pass
Fludioxonil***	< LOQ	0.40	0.20	Pass
Hexythiazox	< LOQ	1.00	0.20	Pass
Imazalil	< LOQ	0.20	0.20	Pass
Imidacloprid	< LOQ	0.40	0.20	Pass
Kresoxim-methyl	< LOQ	0.40	0.20	Pass

*** Compounds were tested on GCMS. All others on LCMS. Continued on next page...

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Pesticide Analysis

Evaluation Detail

Pesticide Name	Tested Value (ppm)	Pass Criteria (ppm)	LOQ (ppm)	Status Pass/Unsatisfactory
Malathion	< LOQ	0.20	0.20	Pass
Metalaxyl	< LOQ	0.20	0.20	Pass
Methiocarb	< LOQ	0.20	0.20	Pass
Methomyl	< LOQ	0.40	0.20	Pass
MGK-264	< LOQ	0.20	0.20	Pass
Myclobutanil	< LOQ	0.20	0.20	Pass
Naled	< LOQ	0.50	0.20	Pass
Oxamyl	< LOQ	1.00	0.20	Pass
Paclobutrazol	< LOQ	0.40	0.20	Pass
Parathion-methyl***	< LOQ	0.20	0.10	Pass
Permethrin, cis-trans	< LOQ	0.20	0.20	Pass
Phosmet	< LOQ	0.20	0.20	Pass
Piperonyl butoxide	< LOQ	2.00	0.20	Pass
Prallethrin	< LOQ	0.20	0.20	Pass
Propiconazole	< LOQ	0.40	0.20	Pass
Propoxur	< LOQ	0.20	0.20	Pass
Pyrethrins (3 isomers)	< LOQ	1.00	0.20	Pass
Pyridaben	< LOQ	0.20	0.20	Pass
Spinosad	< LOQ	0.20	0.20	Pass
Spiromesifen	< LOQ	0.20	0.20	Pass
Spirotetramat	< LOQ	0.20	0.20	Pass
Spiroxamine	< LOQ	0.40	0.20	Pass
Tebuconazole	< LOQ	0.40	0.20	Pass
Thiacloprid	< LOQ	0.20	0.20	Pass
Thiamethoxam	< LOQ	0.20	0.20	Pass
Trifloxystrobin	< LOQ	0.20	0.20	Pass

*** Compounds were tested on GCMS. All others on LCMS.

Report: Definition



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Water Activity		Quality Control Detail					
Analysis Date:	2019-11-14	Water Activity Analysis	Negative Control	Positive Control	Expected Value (aw)	Tested Value (aw)	Pass Criteria
			○		1.0000	0.9959	aw ± 0.010
				●	0.5289	0.5244	aw ± 0.010
Moisture Analysis		Quality Control Detail					
Analysis Date:	2019-11-14	Moisture Analysis	Negative Control	Positive Control	Expected Value (%)	Tested Value (%)	Pass Criteria
			○		0.0%	1.2%	± 2.5%
				●	100.0%	100.6%	± 2.5%
Cannabinoid Potency Analysis		Quality Control Detail					
Analysis Date:	2019-11-15	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%	103.81%	80%-120%
		Delta9 Tetrahydro-cannabinol		●	100.0%	97.18%	80%-120%
		Cannabidiolic acid		●	100.0%	99.89%	80%-120%
		Cannabidiol		●	100.0%	99.03%	80%-120%
		Cannabinol		●	100.0%	101.04%	80%-120%

Report: Quality Check



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Pesticide Analysis

Analysis Date: 2019-11-26
LCMS

Analysis Date: 2019-11-26
GCMS

Quality Control Detail

Pesticide Name	Negative Control (P-BL)	Positive Control (LCS)	Expected Value (ppm)	Tested Value (ppm)	Pass Criteria (ppm)
Abamectin	o		< 0.25	< 0.25	< 0.25
Acephate	o		< 0.2	< 0.2	< 0.2
Acequinocyl	o		< 1	< 1	< 1
Acetamiprid	o		< 0.1	< 0.1	< 0.1
Aldicarb	o		< 0.2	< 0.2	< 0.2
Azoxystrobin	o		< 0.1	< 0.1	< 0.1
Bifenazate	o		< 0.1	< 0.1	< 0.1
Bifenthrin	o		< 0.1	< 0.1	< 0.1
Boscalid	o		< 0.2	< 0.2	< 0.2
Carbaryl	o		< 0.1	< 0.1	< 0.1
Carbofuran	o		< 0.1	< 0.1	< 0.1
Chlorantraniliprole	o		< 0.1	< 0.1	< 0.1
Chlorfenapyr***	o		< 0.5	< 0.5	< 0.5
Chlorpyrifos	o		< 0.1	< 0.1	< 0.1
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		< 0.5	< 0.5	< 0.5
Diazinon	o		< 0.1	< 0.1	< 0.1
Dichlorvos	o		< 0.5	< 0.5	< 0.5
Dimethoate	o		< 0.1	< 0.1	< 0.1
Ethoprophos	o		< 0.1	< 0.1	< 0.1
Etofenprox	o		< 0.2	< 0.2	< 0.2
Etoxazole	o		< 0.1	< 0.1	< 0.1
Fenoxycarb	o		< 0.1	< 0.1	< 0.1
Fenpyroximate	o		< 0.2	< 0.2	< 0.2
Fipronil***	o		< 0.2	< 0.2	< 0.2
Flonicamid	o		< 0.5	< 0.5	< 0.5
Fludioxonil***	o		< 0.2	< 0.2	< 0.2
Hexythiazox	o		< 0.5	< 0.5	< 0.5
Imazalil	o		< 0.1	< 0.1	< 0.1
Imidacloprid	o		< 0.2	< 0.2	< 0.2
Kresoxim-methyl	o		< 0.2	< 0.2	< 0.2

*** Compounds were tested on GCMS. All others on LCMS. Continued on next page...

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Pesticide Name	Negative Control (P-BL)	Positive Control (LCS)	Expected Value (ppm)	Tested Value (ppm)	Pass Criteria (ppm)
Malathion	o		< 0.1	< 0.1	< 0.1
Metalaxyl	o		< 0.1	< 0.1	< 0.1
Methiocarb	o		< 0.1	< 0.1	< 0.1
Methomyl	o		< 0.2	< 0.2	< 0.2
MGK-264	o		< 0.1	< 0.1	< 0.1
Myclobutanil	o		< 0.1	< 0.1	< 0.1
Naled	o		< 0.25	< 0.25	< 0.25
Oxamyl	o		< 0.5	< 0.5	< 0.5
Paclobutrazol	o		< 0.2	< 0.2	< 0.2
Parathion-methyl***	o		< 0.1	< 0.1	< 0.1
Permethrin, cis-trans	o		< 0.1	< 0.1	< 0.1
Phosmet	o		< 0.1	< 0.1	< 0.1
Piperonyl butoxide	o		< 1	< 1	< 1
Prallethrin	o		< 0.1	< 0.1	< 0.1
Propiconazole	o		< 0.2	< 0.2	< 0.2
Propoxur	o		< 0.1	< 0.1	< 0.1
Pyrethrins (3 isomers)	o		< 0.5	< 0.5	< 0.5
Pyridaben	o		< 0.1	< 0.1	< 0.1
Spinosad	o		< 0.1	< 0.1	< 0.1
Spiromesifen	o		< 0.1	< 0.1	< 0.1
Spirotetramat	o		< 0.1	< 0.1	< 0.1
Spiroxamine	o		< 0.2	< 0.2	< 0.2
Tebuconazole	o		< 0.2	< 0.2	< 0.2
Thiacloprid	o		< 0.1	< 0.1	< 0.1
Thiamethoxam	o		< 0.1	< 0.1	< 0.1
Trifloxystrobin	o		< 0.1	< 0.1	< 0.1
Abamectin		•	1.5	1.927	0.15 - 2.4
Acephate		•	1.5	1.418	0.15 - 2.4
Acequinocyl		•	1.5	1.732	0.15 - 2.4
Acetamiprid		•	1.5	1.642	0.15 - 2.4
Aldicarb		•	1.5	1.343	0.15 - 2.4
Azoxystrobin		•	1.5	1.911	0.15 - 2.4
Bifenazate		•	1.5	1.536	0.15 - 2.4

*** Compounds were tested on GCMS. All others on LCMS. Continued on next page...

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Pesticide Name	Negative Control (P-BL)	Positive Control (LCS)	Expected Value (ppm)	Tested Value (ppm)	Pass Criteria (ppm)
Bifenthrin		●	1.5	1.686	0.15 - 2.4
Boscalid		●	1.5	1.867	0.15 - 2.4
Carbaryl		●	1.5	1.488	0.15 - 2.4
Carbofuran		●	1.5	1.568	0.15 - 2.4
Chlorantraniliprole		●	1.5	1.269	0.15 - 2.4
Chlorfenapyr***		●	1.5	1.488	0.75 - 2.4
Chlorpyrifos		●	1.5	1.776	0.15 - 2.4
Clofentezine		●	1.5	1.437	0.15 - 2.4
Cyfluthrin***		●	1.5	1.504	0.75 - 2.4
Cypermethrin***		●	1.5	1.555	0.75 - 2.4
Daminozide		●	1.5	1.767	0.15 - 2.4
Diazinon		●	1.5	1.467	0.15 - 2.4
Dichlorvos		●	1.5	1.777	0.15 - 2.4
Dimethoate		●	1.5	1.677	0.15 - 2.4
Ethoprophos		●	1.5	1.728	0.15 - 2.4
Etofenprox		●	1.5	1.769	0.15 - 2.4
Etoxazole		●	1.5	1.858	0.15 - 2.4
Fenoxycarb		●	1.5	1.607	0.15 - 2.4
Fenpyroximate		●	1.5	1.772	0.15 - 2.4
Fipronil***		●	1.5	1.476	0.75 - 2.4
Fonicamid		●	1.5	1.322	0.15 - 2.4
Fludioxonil***		●	1.5	1.458	0.75 - 2.4
Hexythiazox		●	1.5	1.867	0.15 - 2.4
Imazalil		●	1.5	1.584	0.15 - 2.4
Imidacloprid		●	1.5	1.793	0.15 - 2.4
Kresoxim-methyl		●	1.5	1.387	0.15 - 2.4
Malathion		●	1.5	1.634	0.15 - 2.4
Metalaxyl		●	1.5	1.689	0.15 - 2.4
Methiocarb		●	1.5	1.747	0.15 - 2.4
Methomyl		●	1.5	1.730	0.15 - 2.4
MGK-264		●	1.5	1.852	0.15 - 2.4
Myclobutanil		●	1.5	1.624	0.15 - 2.4
Naled		●	1.5	1.393	0.15 - 2.4

*** Compounds were tested on GCMS. All others on LCMS. Continued on next page...

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Pesticide Analysis

Quality Control Detail

Pesticide Name	Negative Control (P-BL)	Positive Control (LCS)	Expected Value (ppm)	Tested Value (ppm)	Pass Criteria (ppm)
Oxamyl		●	1.5	1.707	0.15 - 2.4
Paclobutrazol		●	1.5	1.683	0.15 - 2.4
Parathion-methyl***		●	1.5	1.451	0.75 - 2.4
Permethrin, cis-trans		●	1.5	1.727	0.15 - 2.4
Phosmet		●	1.5	1.970	0.15 - 2.4
Piperonyl butoxide		●	1.5	1.868	0.15 - 2.4
Prallethrin		●	1.5	1.468	0.15 - 2.4
Propiconazole		●	1.5	1.650	0.15 - 2.4
Propoxur		●	1.5	1.606	0.15 - 2.4
Pyrethrins (3 isomers)		●	1.5	1.583	0.15 - 2.4
Pyridaben		●	1.5	1.656	0.15 - 2.4
Spinosad		●	1.5	1.457	0.15 - 2.4
Spiromesifen		●	1.5	1.901	0.15 - 2.4
Spirotetramat		●	1.5	1.859	0.15 - 2.4
Spiroxamine		●	1.5	1.394	0.15 - 2.4
Tebuconazole		●	1.5	1.637	0.15 - 2.4
Thiacloprid		●	1.5	1.623	0.15 - 2.4
Thiamethoxam		●	1.5	1.649	0.15 - 2.4
Trifloxystrobin		●	1.5	1.694	0.15 - 2.4

*** Compounds were tested on GCMS. All others on LCMS.

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