

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

For OLCC/OHA Compliance Purposes.

Product Description

Client: **SoFresh Farms**

Product Name: **Betty Hayes-GHR4**

Harvest Lot: Strain: Betty Hayes

Matrix: Cannabis Plant

Metric Source ID: 1A4010300001E17000007134

Metric Package ID: 1A4010300001E17000006968

License Number: n/a

Report ID: A1349-01

Date Collected: 2020-03-19

Date Received: 2020-03-19

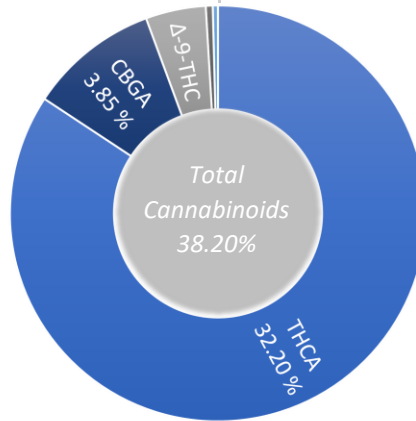
Report Date: 2020-03-23

Tests Requested: Water Activity
Moisture Analysis
Cannabinoid Potency Analysis

Evaluation Summary

Water Activity	Tested Value (aw)	Pass Criteria (aw)
Pass	0.459 aw	< 0.65 aw
Moisture Analysis	Tested Value (%)	Pass Criteria (%)
Pass	8.85 %	< 15.0 %

Cannabinoid Potency Analysis		Abrv.	Dry Wt. %	Dry Wt. mg/g
Total THC *		THCA	32.20 %	322.0 mg/g
	30.02 %	Δ-9-THC	1.79 %	17.9 mg/g
	300.2 mg/g	Δ-8-THC	< LOQ	< LOQ
Total CBD *		THCV	< LOQ	< LOQ
	0.14 %	CBDA	0.15 %	1.5 mg/g
	1.4 mg/g	CBD	< LOQ	< LOQ
		CBGA	3.85 %	38.5 mg/g
		CBG	0.21 %	2.1 mg/g
		CBDVA	< LOQ	< LOQ
		CBDV	< LOQ	< LOQ
		CBN	< LOQ	< LOQ
		CBL	< LOQ	< LOQ
		CBC	< LOQ	< LOQ



Betty Hayes-GHR4



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

Report: Case Narrative

This certificate of analysis is prepared for...

SoFresh Farms

27135 S Gribble Rd. Canby, OR 97103

This report presents the analytical findings for the sample collected on 2020-03-19 by Dan Hanshaw using sampling plan A1349 and received by PREE Laboratory on 2020-03-19. The sample was assigned a laboratory ID of A1349-01. The results in this report only apply to sample A1349-01.

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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:

No special conditions were noted during the processing and testing of the sample.



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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Water Activity	Evaluation Detail					
Product Name: Betty Hayes-GHR4	Water Activity	Tested Value (aw)	Pass Criteria (aw)	LOQ (aw)	Status Pass/Unsatisfactory	
Analysis Date: 2020-03-20		0.459 aw	< 0.65 aw	0.001 aw	Pass	
Testing Batch ID: V554						
Testing Method: LSOP #302, Water Activity						
Moisture Analysis	Evaluation Detail					
Product Name: Betty Hayes-GHR4	Moisture Analysis	Tested Value (Moisture %)	Pass Criteria (%)	LOQ (%)	Status Pass/Unsatisfactory	
Analysis Date: 2020-03-20		8.85 %	< 15.0 %	0.01 %	Pass	
Testing Batch ID: V554						
Testing Method: LSOP #301 Moisture Analysis						
Cannabinoid Potency Analysis	Evaluation Detail					
Product Name: Betty Hayes-GHR4	Cannabinoid Potency Analysis	Compound	Abrv.	Dry Wt. (%)	Dry Wt. (mg/g)	RL (%)
Analysis Date: 2020-03-20	Total THC *	Tetrahydro-cannabinolic acid	THCA	32.20 %	322.0	0.1 %
	30.02 %	Delta9 Tetrahydro-cannabinol	Δ-9-THC	1.79 %	17.9	0.1 %
Testing Batch ID: V554,553,551	300.2 mg/g	Delta8 Tetrahydro-cannabinol	Δ-8-THC	< LOQ	< LOQ	0.1 %
		Tetrahydrocannabivarin	THCV	< LOQ	< LOQ	0.1 %
Testing Method: LSOP #303 Cannabinoid Quantification	Total CBD *	Cannabidiolic acid	CBDA	0.15 %	1.5	0.1 %
	0.14 %	Cannabidiol	CBD	< LOQ	< LOQ	0.1 %
	1.4 mg/g	Cannabidivarinic Acid	CBGA	3.85 %	38.5	0.1 %
		Cannabidivarin	CBG	0.21 %	2.1	0.1 %
		Cannabigerolic acid	CBDVA	< LOQ	< LOQ	0.1 %
		Cannabigerol	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 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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Water Activity		Quality Control Detail						
Analysis Date:	2020-03-20	Water Activity Analysis		MB	LCS	Expected Value (aw)	Tested Value (aw)	Pass Criteria
Testing Batch ID:	V554			○		1.0000	1.0006	aw ± 0.010
					●	0.5289	0.5337	aw ± 0.010
Moisture Analysis		Quality Control Detail						
Analysis Date:	2020-03-20	Moisture Analysis		MB	LCS	Expected Value (%)	Tested Value (%)	Pass Criteria
Testing Batch ID:	V554			○		0.0%	1.2%	± 2.5%
					●	100.0%	99.2%	± 2.5%
Cannabinoid Potency Analysis		Quality Control Detail						
Analysis Date:	2020-03-20	Cannabinoid Potency Analysis		MB	LCS	Expected Value (%)	Tested Value (%)	Pass Criteria
Testing Batch ID:	V554,553,551	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%	95.2%	80%-120%
		Delta9 Tetrahydro-cannabinol			●	100.0%	105.8%	80%-120%
		Cannabidiolic acid			●	100.0%	98.8%	80%-120%
		Cannabidiol			●	100.0%	97.6%	80%-120%
		Cannabinol			●	100.0%	99.1%	80%-120%

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

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Product Description

Client: **SoFresh Farms**

Product Name: **Composite of (01,09)**

Harvest Lot: Multiple

Matrix: Cannabis Plant

Metrc Source ID: 1A4010300001E17000007134, + 1 more

Metrc Package ID: 1A4010300001E17000006968, 1A4010300

License Number: n/a

Report ID: A1349-12

Date Collected: 2020-03-19

Date Received: 2020-03-19

Report Date: 2020-03-27

Tests Requested: Pesticide Analysis

Evaluation Summary

Pesticide Analysis

Pesticide Status

Pass

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

Report: Case Narrative

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SoFresh Farms

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Pesticide Analysis		Evaluation Detail				
Product Name:	Composite of (01,09)	Pesticide Name	Tested Value (ppm)	Pass Criteria (ppm)	LOQ (ppm)	Status Pass/Unsatisfactory
LCMS		Abamectin B1a	< LOQ	0.50	0.20	Pass
Analysis Date:	2020-03-24	Acephate	< LOQ	0.40	0.20	Pass
Testing Batch ID:	V555,554	Acequinocyl	< LOQ	2.00	0.20	Pass
Testing Method:	LSOP #307 Pesticides by LCMS	Acetamiprid	< LOQ	0.20	0.20	Pass
		Aldicarb	< LOQ	0.40	0.20	Pass
		Azoxystrobin	< LOQ	0.20	0.20	Pass
GCMS		Bifenazate	< LOQ	0.20	0.20	Pass
Analysis Date:	2020-03-24	Bifenthrin	< LOQ	0.20	0.20	Pass
Testing Batch ID:	V555,554	Boscalid	< LOQ	0.40	0.20	Pass
Testing Method:	LSOP #305 Pesticides by GCMS	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	1.00	Pass
		Cypermethrin***	< LOQ	1.00	1.00	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...

Report: Evaluation Detail

Pesticide Analysis

Evaluation Detail

Pesticide Name	Tested Value (ppm)	Pass Criteria (ppm)	LOQ (ppm)	Status Pass/Unsatisfactory
Malathion	< LOQ	0.20	0.20	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: Quality Check



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Pesticide Analysis

LCMS

Analysis Date: 2020-03-24

Testing Batch ID: V555,554

GCMS

Analysis Date: 2020-03-24

Testing Batch ID: V555,554

Quality Control Detail

Pesticide Name	MB	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 Analysis

Quality Control Detail

Pesticide Name	MB	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	2.132	0.15 - 2.4
Acephate		•	1.5	1.178	0.15 - 2.4
Acequinocyl		•	1.5	1.823	0.15 - 2.4
Acetamiprid		•	1.5	1.742	0.15 - 2.4
Aldicarb		•	1.5	1.212	0.15 - 2.4
Azoxystrobin		•	1.5	1.725	0.15 - 2.4
Bifenazate		•	1.5	1.703	0.15 - 2.4

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

Report: Quality Check

Pesticide Analysis

Quality Control Detail

Pesticide Name	MB	LCS	Expected Value (ppm)	Tested Value (ppm)	Pass Criteria (ppm)
Bifenthrin		•	1.5	1.753	0.15 - 2.4
Boscalid		•	1.5	1.608	0.15 - 2.4
Carbaryl		•	1.5	1.553	0.15 - 2.4
Carbofuran		•	1.5	1.524	0.15 - 2.4
Chlorantraniliprole		•	1.5	1.400	0.15 - 2.4
Chlorfenapyr***		•	1.5	1.482	0.75 - 2.4
Chlorpyrifos		•	1.5	1.666	0.15 - 2.4
Clofentezine		•	1.5	1.683	0.15 - 2.4
Cyfluthrin***		•	1.5	1.466	0.75 - 2.4
Cypermethrin***		•	1.5	1.465	0.75 - 2.4
Daminozide		•	1.5	1.566	0.15 - 2.4
Diazinon		•	1.5	1.690	0.15 - 2.4
Dichlorvos		•	1.5	1.538	0.15 - 2.4
Dimethoate		•	1.5	1.620	0.15 - 2.4
Ethoprophos		•	1.5	1.476	0.15 - 2.4
Etofenprox		•	1.5	1.769	0.15 - 2.4
Etoxazole		•	1.5	1.733	0.15 - 2.4
Fenoxycarb		•	1.5	1.715	0.15 - 2.4
Fenpyroximate		•	1.5	1.767	0.15 - 2.4
Fipronil***		•	1.5	1.471	0.75 - 2.4
Flonicamid		•	1.5	1.486	0.15 - 2.4
Fludioxonil***		•	1.5	1.515	0.75 - 2.4
Hexythiazox		•	1.5	1.606	0.15 - 2.4
Imazalil		•	1.5	1.519	0.15 - 2.4
Imidacloprid		•	1.5	1.729	0.15 - 2.4
Kresoxim-methyl		•	1.5	1.361	0.15 - 2.4
Malathion		•	1.5	1.706	0.15 - 2.4
Metalaxyl		•	1.5	1.676	0.15 - 2.4
Methiocarb		•	1.5	1.736	0.15 - 2.4
Methomyl		•	1.5	1.412	0.15 - 2.4
MGK-264		•	1.5	1.664	0.15 - 2.4
Myclobutanil		•	1.5	1.694	0.15 - 2.4
Naled		•	1.5	1.489	0.15 - 2.4

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Pesticide Name	MB	LCS	Expected Value (ppm)	Tested Value (ppm)	Pass Criteria (ppm)
Oxamyl		•	1.5	1.581	0.15 - 2.4
Paclobutrazol		•	1.5	1.710	0.15 - 2.4
Parathion-methyl***		•	1.5	1.459	0.75 - 2.4
Permethrin, cis-trans		•	1.5	1.511	0.15 - 2.4
Phosmet		•	1.5	1.487	0.15 - 2.4
Piperonyl butoxide		•	1.5	1.641	0.15 - 2.4
Prallethrin		•	1.5	1.800	0.15 - 2.4
Propiconazole***		•	1.5	1.565	0.15 - 2.4
Propoxur		•	1.5	1.625	0.15 - 2.4
Pyrethrins (3 isomers)		•	1.5	1.548	0.15 - 2.4
Pyridaben		•	1.5	1.572	0.15 - 2.4
Spinosad		•	1.5	1.619	0.15 - 2.4
Spiromesifen		•	1.5	1.732	0.15 - 2.4
Spirotetramat		•	1.5	1.695	0.15 - 2.4
Spiroxamine		•	1.5	1.675	0.15 - 2.4
Tebuconazole		•	1.5	1.668	0.15 - 2.4
Thiacloprid		•	1.5	1.463	0.15 - 2.4
Thiamethoxam		•	1.5	1.704	0.15 - 2.4
Trifloxystrobin		•	1.5	1.674	0.15 - 2.4

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

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