

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: **Black Betty 5.4.20**

Harvest Lot: GHR1 BB 5/4/20

Matrix: Cannabis Plant

Metc Source ID: 1A4010300001E17000006654

Metc Package ID: 1A4010300001E17000006598

License Number: 020-100010499D8

Report ID: A1677-04

Date Collected: 2020-06-15

Date Received: 2020-06-15

Report Date: 2020-06-19

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

Black Betty 5.4.20

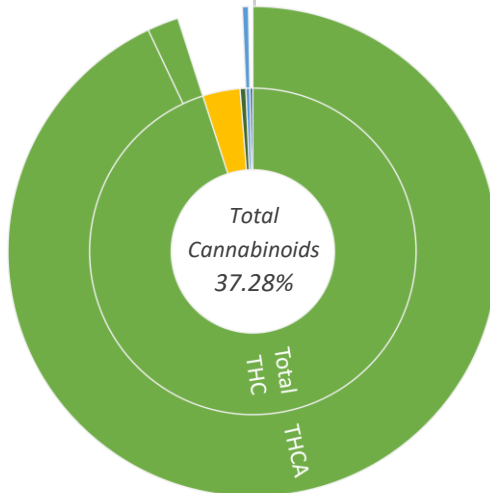


Evaluation Summary

Water Activity	Tested Value (aw)	Pass Criteria (aw)
Pass	0.532 aw	< 0.65 aw

Moisture Analysis	Tested Value (%)	Pass Criteria (%)
Pass	9.71 %	< 15.0 %

Cannabinoid Potency Analysis		Abrv.	Dry Wt. %	Dry Wt. mg/g	
Total THC *	31.16 %	311.6 mg/g	THCA	34.65 %	346.5 mg/g
			Δ-9-THC	0.77 %	7.7 mg/g
Total CBD *	0.13 %	1.3 mg/g	Δ-8-THC	< LOQ	< LOQ
			THCV	< LOQ	< LOQ
			CBDA	0.15 %	1.5 mg/g
			CBD	< LOQ	< LOQ
			CBGA	1.38 %	13.8 mg/g
			CBG	0.21 %	2.1 mg/g
			CBDVA	< LOQ	< LOQ
			CBDV	< LOQ	< LOQ
			CBN	< LOQ	< LOQ
			CBL	0.11 %	1.1 mg/g
			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...

SoFresh Farms

27135 S Gribble Rd. Canby, OR 97103

This report presents the analytical findings for the sample collected on 2020-06-15 by Dan Hanshaw using sampling plan A1677 and received by PREE Laboratory on 2020-06-15. The sample was assigned a laboratory ID of A1677-04. The results in this report only apply to sample A1677-04.

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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:

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: Black Betty 5.4.20	Water Activity	Tested Value (aw)	Pass Criteria (aw)	LOQ (aw)	Status Pass/Unsatisfactory	
Analysis Date: 2020-06-16		0.532 aw	< 0.65 aw	0.001 aw	Pass	
Testing Batch ID: V637						
Testing Method: LSOP #302, Water Activity						
Moisture Analysis	Evaluation Detail					
Product Name: Black Betty 5.4.20	Moisture Analysis	Tested Value (Moisture %)	Pass Criteria (%)	LOQ (%)	Status Pass/Unsatisfactory	
Analysis Date: 2020-06-16		9.71 %	< 15.0 %	0.01 %	Pass	
Testing Batch ID: V637						
Testing Method: LSOP #301 Moisture Analysis						
Cannabinoid Potency Analysis	Evaluation Detail					
Product Name: Black Betty 5.4.20	Cannabinoid Potency Analysis	Compound	Abrv.	Dry Wt. (%)	Dry Wt. (mg/g)	RL (%)
Analysis Date: 2020-06-16	Total THC *	Tetrahydro-cannabinolic acid	THCA	34.65 %	346.5	0.1 %
Testing Batch ID: V637,636	31.16 %	Delta9 Tetrahydro-cannabinol	Δ-9-THC	0.77 %	7.7	0.1 %
Testing Method: LSOP #303 Cannabinoid Quantification	311.6 mg/g	Delta8 Tetrahydro-cannabinol	Δ-8-THC	< LOQ	< LOQ	0.1 %
		Tetrahydrocannabivarin	THCV	< LOQ	< LOQ	0.1 %
	Total CBD *	Cannabidiolic acid	CBDA	0.15 %	1.5	0.1 %
	0.13 %	Cannabidiol	CBD	< LOQ	< LOQ	0.1 %
	1.3 mg/g	Cannabigerolic acid	CBGA	1.38 %	13.8	0.1 %
		Cannabigerol	CBG	0.21 %	2.1	0.1 %
		Cannabidivarinic acid	CBDVA	< LOQ	< LOQ	0.1 %
		Cannabidivarin	CBDV	< LOQ	< LOQ	0.1 %
		Cannabinol	CBN	< LOQ	< LOQ	0.1 %
		Cannabicyclol	CBL	0.11 %	1.1	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: 2020-06-16	Water Activity Analysis		MB	LCS	Expected Value (aw)	Tested Value (aw)	Pass Criteria
Testing Batch ID: V637			○		1.0000	0.9956	aw ± 0.010
				●	0.5289	0.5228	aw ± 0.010
Moisture Analysis		Quality Control Detail					
Analysis Date: 2020-06-16	Moisture Analysis		MB	LCS	Expected Value (%)	Tested Value (%)	Pass Criteria
Testing Batch ID: V637			○		0.0%	1.0%	± 2.5%
				●	100.0%	100.8%	± 2.5%
Cannabinoid Potency Analysis		Quality Control Detail					
Analysis Date: 2020-06-16	Cannabinoid Potency Analysis		MB	LCS	Expected Value (%)	Tested Value (%)	Pass Criteria
Testing Batch ID: V637,636	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%	106.6%	80%-120%
	Delta9 Tetrahydro-cannabinol			●	100.0%	104.6%	80%-120%
	Cannabidiolic acid			●	100.0%	109.6%	80%-120%
	Cannabidiol			●	100.0%	106.0%	80%-120%
	Cannabinol			●	100.0%	106.7%	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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Report ID: A1677-04

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Date Received: 2020-06-15

Report Date: 2020-06-17

Tests Requested: Water Activity
Moisture Analysis
Cannabinoid Potency Analysis
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

Black Betty 5.4.20



Report: Case Narrative

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SoFresh Farms

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Notes:

The initial calibration verification did not meet acceptance criteria for the following analytes: MGK-264, Pyrethrins



Sardar, Tamzid M. | Laboratory Director
Corvallis, Oregon



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Pesticide Analysis

Product Name: **Black Betty 5.4.20**

Analysis Date: 2020-06-16

Testing Batch ID: V638,637

Testing Method: LSOP #307 Pesticides by LCMS

Evaluation Detail

Pesticide Name	Tested Value	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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Pesticide Analysis

Evaluation Detail

Pesticide Name	Tested Value	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
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
Methyl Parathion	< LOQ	0.20	0.10	Pass
Permethrins	< LOQ	0.20	0.10	Pass
Phosmet	< LOQ	0.20	0.10	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

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Pesticide Analysis

Analysis Date: 2020-06-16

Testing Batch ID: V638,637

Quality Control Detail

Pesticide Name	MB	LCS	Expected Value (ppm)	Tested Value (ppm)	Pass Criteria (ppm)
Abamectin	o		< 0.10	< 0.10	< 0.10
Acephate	o		< 0.02	< 0.02	< 0.02
Acequinocyl	o		< 0.10	< 0.10	< 0.10
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		< 0.10	< 0.10	< 0.10
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		< 0.50	< 0.50	< 0.50
Chlorpyrifos	o		< 0.02	< 0.02	< 0.02
Clofentezine	o		< 0.10	< 0.10	< 0.10
Cyfluthrin	o		< 0.50	< 0.50	< 0.50
Cypermethrin	o		< 0.50	< 0.50	< 0.50
Daminozide	o		< 0.10	< 0.10	< 0.10
Diazinon	o		< 0.02	< 0.02	< 0.02
Dichlorvos	o		< 0.10	< 0.10	< 0.10
Dimethoate	o		< 0.02	< 0.02	< 0.02
Ethoprophos	o		< 0.02	< 0.02	< 0.02
Etofenprox	o		< 0.10	< 0.10	< 0.10
Etoxazole	o		< 0.02	< 0.02	< 0.02
Fenoxycarb	o		< 0.02	< 0.02	< 0.02
Fenpyroximate	o		< 0.10	< 0.10	< 0.10
Fipronil***	o		< 0.02	< 0.02	< 0.02
Flonicamid	o		< 0.02	< 0.02	< 0.02
Fludioxonil	o		< 0.10	< 0.10	< 0.10
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		< 0.10	< 0.10	< 0.10

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Pesticide Analysis

Quality Control Detail

Pesticide Name	MB	LCS	Expected Value (ppm)	Tested Value (ppm)	Pass Criteria (ppm)
Malathion	○		< 0.02	< 0.02	< 0.02
Metalaxyl	○		< 0.02	< 0.02	< 0.02
Methiocarb	○		< 0.02	< 0.02	< 0.02
Methomyl	○		< 0.02	< 0.02	< 0.02
MGK-264	○		< 0.10	< 0.10	< 0.10
Myclobutanil	○		< 0.10	< 0.10	< 0.10
Naled	○		< 0.02	< 0.02	< 0.02
Oxamyl	○		< 0.02	< 0.02	< 0.02
Paclobutrazol	○		< 0.02	< 0.02	< 0.02
Parathion-methyl	○		< 0.10	< 0.10	< 0.10
Permethrin, cis-trans	○		< 0.10	< 0.10	< 0.10
Phosmet	○		< 0.02	< 0.02	< 0.02
Piperonyl butoxide	○		< 0.02	< 0.02	< 0.02
Prallethrin	○		< 0.10	< 0.10	< 0.10
Propiconazole	○		< 0.10	< 0.10	< 0.10
Propoxur	○		< 0.02	< 0.02	< 0.02
Pyrethrins (3 isomers)	○		< 0.50	< 0.50	< 0.50
Pyridaben	○		< 0.02	< 0.02	< 0.02
Spinosad	○		< 0.02	< 0.02	< 0.02
Spiromesifen	○		< 0.10	< 0.10	< 0.10
Spirotetramat	○		< 0.02	< 0.02	< 0.02
Spiroxamine	○		< 0.02	< 0.02	< 0.02
Tebuconazole	○		< 0.02	< 0.02	< 0.02
Thiacloprid	○		< 0.02	< 0.02	< 0.02
Thiamethoxam	○		< 0.02	< 0.02	< 0.02
Trifloxystrobin	○		< 0.02	< 0.02	< 0.02
Abamectin		●	1	0.922	0.60 - 1.40
Acephate		●	1	0.866	0.60 - 1.40
Acequinocyl		●	1	0.967	0.60 - 1.40
Acetamiprid		●	1	1.248	0.60 - 1.40
Aldicarb		●	1	1.095	0.60 - 1.40
Azoxystrobin		●	1	0.956	0.60 - 1.40
Bifenazate		●	1	1.216	0.60 - 1.40

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Pesticide Analysis

Quality Control Detail

Pesticide Name	MB	LCS	Expected Value (ppm)	Tested Value (ppm)	Pass Criteria (ppm)
Bifenthrin		•	1	0.979	0.60 - 1.40
Boscalid		•	1	0.917	0.60 - 1.40
Carbaryl		•	1	0.945	0.60 - 1.40
Carbofuran		•	1	0.942	0.60 - 1.40
Chlorantraniliprole		•	1	0.923	0.60 - 1.40
Chlorfenapyr		•	1	1.363	0.60 - 1.40
Chlorpyrifos		•	1	1.018	0.60 - 1.40
Clofentezine		•	1	0.887	0.60 - 1.40
Cyfluthrin		•	1	1.070	0.60 - 1.40
Cypermethrin		•	1	1.024	0.60 - 1.40
Daminozide		•	1	0.827	0.60 - 1.40
Diazinon		•	1	0.960	0.60 - 1.40
Dichlorvos		•	1	1.011	0.60 - 1.40
Dimethoate		•	1	1.141	0.60 - 1.40
Ethoprophos		•	1	1.055	0.60 - 1.40
Etofenprox		•	1	1.120	0.60 - 1.40
Etoxazole		•	1	1.100	0.60 - 1.40
Fenoxycarb		•	1	1.200	0.60 - 1.40
Fenpyroximate		•	1	1.029	0.60 - 1.40
Fipronil		•	1	0.610	0.60 - 1.40
Flonicamid		•	1	0.977	0.60 - 1.40
Fludioxonil		•	1	1.043	0.60 - 1.40
Hexythiazox		•	1	1.084	0.60 - 1.40
Imazalil		•	1	0.919	0.60 - 1.40
Imidacloprid		•	1	0.905	0.60 - 1.40
Kresoxim-methyl		•	1	1.046	0.60 - 1.40
Malathion		•	1	1.002	0.60 - 1.40
Metalaxyl		•	1	0.837	0.60 - 1.40
Methiocarb		•	1	1.040	0.60 - 1.40
Methomyl		•	1	0.860	0.60 - 1.40
MGK-264		•	1	1.060	0.60 - 1.40
Myclobutanil		•	1	1.079	0.60 - 1.40
Naled		•	1	0.887	0.60 - 1.40

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Pesticide Name	MB	LCS	Expected Value (ppm)	Tested Value (ppm)	Pass Criteria (ppm)
Oxamyl		•	1	1.122	0.60 - 1.40
Paclobutrazol		•	1	0.988	0.60 - 1.40
Parathion-methyl		•	1	1.204	0.60 - 1.40
Permethrin, cis-trans		•	1	0.993	0.60 - 1.40
Phosmet		•	1	1.074	0.60 - 1.40
Piperonyl butoxide		•	1	1.003	0.60 - 1.40
Prallethrin		•	1	0.961	0.60 - 1.40
Propiconazole		•	1	1.138	0.60 - 1.40
Propoxur		•	1	0.888	0.60 - 1.40
Pyrethrins (3 isomers)		•	1	1.123	0.60 - 1.40
Pyridaben		•	1	1.148	0.60 - 1.40
Spinosad		•	1	1.227	0.60 - 1.40
Spiromesifen		•	1	0.828	0.60 - 1.40
Spirotetramat		•	1	0.882	0.60 - 1.40
Spiroxamine		•	1	0.950	0.60 - 1.40
Tebuconazole		•	1	1.293	0.60 - 1.40
Thiacloprid		•	1	1.021	0.60 - 1.40
Thiamethoxam		•	1	0.942	0.60 - 1.40
Trifloxystrobin		•	1	1.139	0.60 - 1.40

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