ORELAP Cert No. 4092-002
OLCC No. 1002158CD2E

Oregon Compliant Marijuana Potency Analysis by High Performance Liquid Chromatography

Testing Accreditation #: 4092-002

Test Certificate #: 116901-001

Client Name, Sample Details
Northwest Artisan Coalition
St. Helens, OR 97051
Sample: NW Artisan Durban Poison 03/10/2019
License: 020-1007523E373
Type: Usable Marijuana
Method: FE04U HPLC1100-1
Metrc Test Pkg#: 1A4010300013DF9000000595
Metrc Source Pkg#: 1A4010300013DF9000000551
***Water Activity:** 0.492
***Moisture:** 13.07%

Test Conditions
Prepsheet ID#: ORP190515a
Scale: XS205-OR1
Temp: 22.1 °C
Baro PE: 987.7 hPa
Analyst: HRM
Technician: EDT

Sample ID#: 116901
Lot #: NW Artisan Durban Poison 03/10/19
Batch #: 116901
Batch Weight (g): 672
Harvest/Process Date: 03/10/2019
Serving Size (g): 1
Date Received: 05/10/2019
Test Date: 05/13/2019

Test Compounds	THC	THCA	CBD	CBDA	CBN	CBG	CBC	THCV*	CBDV	Total Cannabinoids*	Total THC	Total CBD	Calc Max Total Cannabinoids*
Amount (%)	1.79	26.15	N/D	1.27	1.16	0.14	0.02	0.11	N/D	30.63	24.72	1.12	27.26
Amount (mg/g)	17.90	261.46	N/D	12.73	11.55	1.37	0.21	1.08	N/D	306.3	247.21	11.17	272.59
Amount per Serving (mg)	17.90	261.46	N\D	12.73	11.55	1.37	0.21	1.08	N\D	306.30	**Serving Size~** (g):		1.00
LOQ (mg/g)	0.05	0.05	0.05	0.05	0.05	0.05	0.05	0.05	0.05		**%Decarb.**	**THC**	**CBD**
±%RPD	10.38	2.41	0.00	1.82	7.41	6.90	0.00	0.00	0.00			6	0%

LOQ = Limit of Quantitation; %RPD = Relative Percent Deviation; %RSD = Relative Standard Deviation; N/D = Not Detected
*Designates values that are not currently included in the accredited scope of Iron Laboratories.
*** Designates tests that use the method FE-45.

Total THC and CBD is the calculated sum of THC or CBD and the amount of THC or CBD derived from THCA or CBDA, respectively. These values are calculated by applying a molar correction factor of 0.877 to the THCA or the CBDA value. Calc Max Total Cannabinoids is the sum of Total THC, Total CBD, CBN, CBG, CBC, THCV, and CBDV.

%Decarb. THC and CBD refers to the percentage of THC or CBD relative to THCA or CBDA, respectively.

SOP FE-01-OR9 was used in accordance with OAR 333-007 for sampling. All marijuana items are sampled and tested in accordance with OAR 333-007-0300 to 333-007-490 and OAR 333-064-0100 to 333-064-0110.

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Joseph Rutkowski, Quality Manager

Himashi Mead, Technical Manager

Iron Labs Oregon complies with 2009 TNI Environmental Laboratory Standards.

Tested by Iron Laboratories Oregon, 71 Cenntenial Loop Suite D Eugene, OR 97401

ORELAP Cert No. 4092-002
OLCC No. 1002158CD2E

Oregon Compliant QC Report

Testing Accreditation #: 4092-002

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St. Helens, OR 97051
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Type: Usable Marijuana
Method: FE04U HPLC1100-1
Metrc Test Pkg#: 1A4010300013DF9000000595
Metrc Source Pkg#: 1A4010300013DF9000000551
***Water Activity:** 0.492
***Moisture:** 13.07%

Test Conditions
Prepsheet ID#: ORP190515a
Scale: XS205-OR1
Temp: 22.1 °C
Baro PE: 987.7 hPa
Analyst: HRM
Technician: EDT

Sample ID#: 116901
Lot #: NW Artisan Durban Poison 03/10/19
Batch #: 116901
Batch Weight (g): 672
Harvest/Process Date: 03/10/2019
Serving Size (g): 1
Date Received: 05/10/2019
Test Date: 05/13/2019

Target Compound Name	Method Blank (µg/g)	LCS Spike (µg/g)	LCS Amount (µg/g)	Percent Recovery (%) LCS	LCS Duplicate Amount (µg/g)	Percent Recovery (%) LCSD	Relative Percent Difference (%)	QC Flag
Cannabidivarin (CBDV)	N.D.	N.D.	N.D.	0.00	N.D.	0.00	0.00%	
Cannabidiolic Acid (CBDA)	N.D.	1.29	1.11	86.05	1.09	84.50	1.82%	
Cannabigerol (CBG)	N.D.	0.15	0.14	93.33	0.15	100.00	6.90%	
Cannabidiol (CBD)	N.D.	N.D.	N.D.	0.00	N.D.	0.00	0.00%	
Δ9-Tetrahydrocannabivarin (THCV)	N.D.	N.D.	N.D.	0.00	N.D.	0.00	0.00%	
Cannabinol (CBN)	N.D.	0.11	0.13	118.18	0.14	127.27	7.41%	
Δ9-Tetrahydrocannabinol (THC)	N.D.	3.31	2.65	80.06	2.94	88.82	10.38%	
Cannabichromene (CBC)	N.D.	0.08	0.06	75.00	0.06	75.00	0.00%	
Tetrahydrocannabinolic acid (THCA)	N.D.	18.31	15.56	84.98	15.19	82.96	2.41%	

N.D. = Not Detected

LR = indicates compound recovery of matrix spike was outside the methods acceptable limits. (70-130%) Low recovery should be scrutinized for possible fail as it could indicate more compound present than is detected.

I = indicates that an amount of an interfering compound greater than the methods limit of detection was detected in the method blank sample. May indicate contamination of analytical system or consumables.

Q = indicates that the relative percent diference of two identicly prepared Matrix Spike samples for a target analyte was greater than 20%

HR = indicates compound recovery of matrix spike was outside the methods acceptable limits. (70-130%) high recoveries should be scrutinized for passing as more compound may be detected than is actually present in the sample.

SOP FE-01-OR9 was used in accordance with OAR 333-007 for sampling. All marijuana items are sampled and tested in accordance with OAR 333-007-0300 to 333-007-490 and OAR 333-064-0100 to 333-064-0110.

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ORELAP Cert No. 4092-002
OLCC No. 1002158CD2E

Oregon Compliant Pesticide Analysis by Mass Spectrometer

Testing Accreditation #: 4092-002

Test Certificate #: 116901-001

Client Name, Sample Details
Northwest Artisan Coalition
St. Helens, OR 97051
Sample: NW Artisan Durban Poison 03/10/2019
License: 020-1007523E373
Type: Usable Marijuana
Method: FE-52 (EN 15662 & AOAC 2007.01)
Metrc Test Pkg#: 1A4010300013DF9000000595
Metrc Source Pkg#: 1A4010300013DF9000000551

Test Conditions
Prepsheet ID#: ORPS190513a
Scale: Veritas-OR1
Temp: 21.2 °C
Baro PE: 997.5 hPa
Analyst: JDM
Technician: JDM

Sample ID#: 116901
Lot #: NW Artisan Durban Poison 03/10/19
Batch #: 116901
Batch Weight (g): 672
Harvest/Process Date: 03/10/2019
Serving Size (g): 1
Date Received: 05/10/2019
Test Date: 05/14/2019

Compound	MRL (µg/g)	LOD (µg/g)	Status (µg/g)	Compound	MRL (µg/g)	LOD (µg/g)	Status (µg/g)
Aldicarb	0.400	0.125	Pass/<LOD	Abamectin****	0.500	0.125	Pass/<LOD
Acephate	0.400	0.125	Pass/<LOD	Acequinocyl	2.000	0.249	Pass/<LOD
Acetamiprid	0.200	0.125	Pass/<LOD	Azoxystrobin	0.200	0.125	Pass/<LOD
Bifenazate	0.200	0.125	Pass/<LOD	Bifenthrin	0.200	0.125	Pass/<LOD
Boscalid	0.400	0.125	Pass/<LOD	Carbaryl	0.200	0.125	Pass/<LOD
Carbofuran	0.200	0.125	Pass/<LOD	Chlorantraniliprole	0.200	0.125	Pass/<LOD
Chlorfenapyr	1.000	0.498	Pass/<LOD	Chlorpyrifos	0.200	0.125	Pass/<LOD
Clofentezine	0.200	0.125	Pass/<LOD	Cyfluthrin**	1.000	0.498	Pass/<LOD
Cypermethrin***	1.000	0.498	Pass/<LOD	Daminozide	1.000	0.125	Pass/<LOD
DDVP (Dichlorvos)	1.000	0.249	Pass/<LOD	Diazinon	0.200	0.125	Pass/<LOD
Dimethoate	0.200	0.125	Pass/<LOD	Ethoprophos	0.200	0.125	Pass/<LOD
Etofenprox	0.400	0.125	Pass/<LOD	Etoxazole	0.200	0.125	Pass/<LOD
Fenoxycarb	0.200	0.125	Pass/<LOD	Fenpyroximate	0.400	0.125	Pass/<LOD
Fipronil	0.400	0.125	Pass/<LOD	Flonicamid	1.000	0.125	Pass/<LOD
Fludioxonil	0.400	0.125	Pass/<LOD	Hexythiazox	1.000	0.125	Pass/<LOD
Imazalil	0.200	0.125	Pass/<LOD	Imidacloprid	0.400	0.125	Pass/<LOD
Kresoxim Methyl	0.400	0.125	Pass/<LOD	Malathion	0.200	0.125	Pass/<LOD
Metalaxyl	0.200	0.125	Pass/<LOD	Methiocarb	0.200	0.125	Pass/<LOD
Methomyl	0.400	0.125	Pass/<LOD	Methyl Parathion	0.200	0.125	Pass/<LOD
MGK-264‡	0.200	0.125	Pass/<LOD	Myclobutanil	0.000	0.125	Pass/<LOD
Naled	0.500	0.125	Pass/<LOD	Oxamyl	1.000	0.125	Pass/<LOD
Paclobutrazol	0.400	0.125	Pass/<LOD	Permethrins†	0.200	0.125	Pass/<LOD
Phosmet	0.200	0.125	Pass/<LOD	Piperonyl Butoxide	2.000	0.125	Pass/<LOD
Prallethrin	0.200	0.125	Pass/<LOD	Propiconazole	0.400	0.125	Pass/<LOD
Propoxur	0.200	0.125	Pass/<LOD	Pyrethrins*	1.000	0.125	Pass/<LOD
Pyridaben	0.200	0.125	Pass/<LOD	Spinosad*****	0.200	0.125	Pass/<LOD
Spiromesifen	0.200	0.125	Pass/<LOD	Spirotetramat	0.200	0.125	Pass/<LOD
Spiroxamine‡	0.400	0.125	Pass/<LOD	Tebuconazole	0.400	0.125	Pass/<LOD
Fenoxycarb	0.200	0.125	Pass/<LOD	Thiamethoxam	0.200	0.125	Pass/<LOD
Trifloxystrobin	0.200	0.125	Pass/<LOD				

* Pyrethrins are reported as the sum of Jasmolin I, Cinerin I, and Pyrethrin I
** Cyfluthrins are reported as the sum of isomers Cyfluthrin I, II, III, and IV
*** Cypermethrins are reported as the sum of isomers Cypermethrin I, II, III, and IV
**** Abamectin is reported as the sum of Avermectin B1a and Avermectin B1b
***** Spinosad is reported as the sum of Spinosyn A and Spinosyn D
† Permethrin and Prallethrin are reported as the sum of cis and trans isomers
‡ MGK-264 and Spiroximine are reported as the sum of isomers I and II
MRL - Maximum Residue Limit; LOD - Limit of Detection

SOP FE-01-OR9 was used in accordance with OAR 333-007 for sampling. All marijuana items are sampled and tested in accordance with OAR 333-007-0300 to 333-007-490 and OAR 333-064-0100 to 333-064-0110.

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ORELAP Cert No. 4092-002
OLCC No. 1002158CD2E

Oregon Compliant Pesticide QC Report

Testing Accreditation #: 4092-002

Test Certificate #: 116901-001

Client Name, Sample Details
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St. Helens, OR 97051
Sample: NW Artisan Durban Poison 03/10/2019
License: 020-1007523E373
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Prepsheet ID#: ORPS190513a
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Baro PE: 997.5 hPa
Analyst: JDM
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Harvest/Process Date: 03/10/2019
Serving Size (g): 1
Date Received: 05/10/2019
Test Date: 05/14/2019

Target Compound Name	Method Blank (µg/g)	QC Spike (µg/g)	Matrix Spike (µg/g)	Matrix Spike Duplicate (µg/g)	MS recovery%	MSD recovery%	Relative Percent Difference (%)	QC Flag
Acephate	N.D.	1	1.3	1.24	130.00	124.00	4.72	
Acequinocyl	N.D.	1	0.823	0.719	82.30	71.90	13.49	
Acetamiprid	N.D.	1	1.32	1.31	132.00	131.00	0.76	HR
Aldicarb	N.D.	1	1.31	1.29	131.00	129.00	1.54	HR
Avermectin B1a	N.D.	0.97	1.11	1.09	114.43	112.37	1.82	
Azoxystrobin	N.D.	1	1.22	1.18	122.00	118.00	3.33	
Bifenazate	N.D.	1	0.101	0.0973	10.10	9.73	3.73	
Bifenthrin	N.D.	1	1.32	1.29	132.00	129.00	2.30	HR
Boscalid	N.D.	1	1.06	1.07	106.00	107.00	0.94	
Carbaryl	N.D.	1	1.46	1.45	146.00	145.00	0.69	HR
Carbofuran	N.D.	1	1.3	1.28	130.00	128.00	1.55	
Chlorantraniliprole	N.D.	1	1.04	1.06	104.00	106.00	1.90	
Chlorfenapyr	N.D.	1	0.906	0.898	90.60	89.80	0.89	
Chlorpyriphos	N.D.	1	1.21	1.26	121.00	126.00	4.05	
Clofentezine	N.D.	1	1.07	1.08	107.00	108.00	0.93	
Cyfluthrin	N.D.	1	1.64	1.45	164.00	145.00	12.30	HR
Cypermethrin	N.D.	1	1.54	1.45	154.00	145.00	6.02	HR
Daminoside	N.D.	1	0.273	0.26	27.30	26.00	4.88	LR
Diazanon	N.D.	1	1.2	1.2	120.00	120.00	0.00	
Dichlorvos	N.D.	1	1.2	1.2	120.00	120.00	0.00	
Dimethoate	N.D.	1	1.32	1.34	132.00	134.00	1.50	HR
Ethoprophos	N.D.	1	1.25	1.22	125.00	122.00	2.43	
Etofenprox	N.D.	1	1.3	1.26	130.00	126.00	3.13	
Etoxazole	N.D.	1	1.17	1.17	117.00	117.00	0.00	
Fenoxycarb	N.D.	1	1.03	1.02	103.00	102.00	0.98	
Fenpyroximate	N.D.	1	1.59	1.51	159.00	151.00	5.16	HR
Fipronil	N.D.	1	1.3	1.27	130.00	127.00	2.33	
Flonicamid	N.D.	1	1.19	1.18	119.00	118.00	0.84	
Fludioxonil	N.D.	1	1.14	1.19	114.00	119.00	4.29	
Hexythiazox	N.D.	1	1.03	0.979	103.00	97.90	5.08	
Imazalil	N.D.	1	1.11	1.14	111.00	114.00	2.67	
Imidacloprid	N.D.	1	1.19	1.23	119.00	123.00	3.31	
Kresoxim-methyl	N.D.	1	1.11	1.06	111.00	106.00	4.61	
Malathion	N.D.	1	1.21	1.16	121.00	116.00	4.22	
Metalaxyl	N.D.	1	1.28	1.27	128.00	127.00	0.78	
Methiocarb	N.D.	1	1.24	1.23	124.00	123.00	0.81	
Methomyl	N.D.	1	1.32	1.33	132.00	133.00	0.75	HR
MGK-264	N.D.	1	1.08	0.98	108.00	98.00	9.71	
Myclobutanil	N.D.	1	1.13	1.12	113.00	112.00	0.89	
Naled (dibrom)	N.D.	1	0.602	0.628	60.20	62.80	4.23	LR
Oxamyl	N.D.	1	1.44	1.42	144.00	142.00	1.40	HR

Paclobutrazol	N.D.	1	1.22	1.2	122.00	120.00	1.65	
Parathion-methyl	N.D.	1	1.06	1.08	106.00	108.00	1.87	
Permethrins	N.D.	1	1.29	1.26	129.00	126.00	2.35	
Phosmet	N.D.	1	1.14	1.12	114.00	112.00	1.77	
Piperonyl butoxide	N.D.	1	1.44	1.46	144.00	146.00	1.38	HR
Prallethrin	N.D.	1	1.05	1.07	105.00	107.00	1.89	
Propiconazole	N.D.	1	1.06	1.06	106.00	106.00	0.00	
Propoxur	N.D.	1	1.14	1.15	114.00	115.00	0.87	
Pyrethrin	N.D.	0.65	0.634	0.621	97.54	95.54	2.07	
Pyridaben	N.D.	1	1.23	1.18	123.00	118.00	4.15	
SpinosynA	N.D.	0.84	0.491	0.628	58.45	74.76	24.49	LRQ
SpinosynD	N.D.	0.16	0.128	0.153	80.00	95.63	17.79	
Spiromesifen	N.D.	1	0.146	0.173	14.60	17.30	16.93	LR
Spirotetramat	N.D.	1	0.947	0.935	94.70	93.50	1.28	
Spiroxamine	N.D.	1	1.37	1.37	137.00	137.00	0.00	HR
Tebuconazole	N.D.	1	1.09	1.15	109.00	115.00	5.36	
Thiacloprid	N.D.	1	1.29	1.26	129.00	126.00	2.35	
Thiamethoxam	N.D.	1	1.24	1.26	124.00	126.00	1.60	
Trifloxystrobin	N.D.	1	1.07	1.09	107.00	109.00	1.85	

N.D. = Not Detected

I = indicates that an amount of an interfering compound greater than the methods limit of detection was detected in the method blank sample. May indicate contamination of analytical system or consumables.

Q = indicates that the relative percent diference of two identicly prepared Matrix Spike samples for a target analyte was greater than 20%

R = indicates compound recovery of matrix spike was outside the methods acceptable limits. (70-130%) Low recovery could indicate there is actually more compound present than detected; while high recoveries should be scrutinized for possible fails as more compound may be detected than is actually residual on the sample.

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