

# HOW TO READ OUR CERTIFICATE OF ANALYSIS (COA)

Using Lightscale Labs, we perform all tests required under state law for recreational cannabis, medical cannabis, and industrial hemp. Chromatography is used for all required tests, a technique where liquid or gas separates different cannabinoids, pesticides, and residual solvents so that each can be identified and measured precisely.

## PAGE I CANNABINOID POTENCY



### TEST & HARVEST DATES

Here you can see the dates related to this particular batch of product, including when it was processed, sampled, analyzed, and when the report was finished.



### CBD & THC CONTENT

Total CBD and THC content in mg/ml and percentage.



### MAJOR & MINOR CANNABINOIDS

Δ9-THC, THCA, CBD, CBDA, and CBN in accordance with OAR 333-007-0430, plus minor cannabinoids.



### CHECKLIST RESULTS

PASS or FAIL results for Pesticides, Solvents, and Potency within this COA.



2535 N Ross Ave  
Portland, OR 97227  
(503) 493-2535  
info@lightscale.com  
ORELAP #4112  
OLCC #010-10033400344

## Shot-15-12

Danodan Hempworks

Sample Type: Tinctures  
Sample Date: 12/2/2019  
Analysis Date: 12/3/2019  
Report Date: 12/9/2019

Metro Batch ID:

Metro Sample ID:

Harvest/Process Date: 11/25/2019

Report ID:

**LS-191204-28**

(503) 290-4079

### Potency

Potency Analysis Date: 12/3/2019  
Sample Batch ID: CAN\_120319C  
Potency Method: JADAC 2015.1

**16.5 mg/mL** Total CBD  
1.51%

**0.972 mg/mL** Total THC  
0.0892%

Samples: ZJH-PDF-PFD, TTT-GNB-SHT  
Density = 1.09 g/mL



Analyte	Description	LOQ	RPD (%)	Min.	Max.	Avg.	Unit: mg/mL
Δ9THC	Delta-9 Tetrahydrocannabinol	0.28	5.85	0.947	0.996	0.972	
THCA	Tetrahydrocannabinolic acid	0.28	0.80	ND	ND	ND	
CBD	Cannabidiol	0.28	0.534	16.1	16.2	16.1	
CBDA	Cannabidiolic acid	0.28	4.24	0.352	0.367	0.360	
Δ8THC	Delta-8 Tetrahydrocannabinol*	0.28	0.80	ND	ND	ND	
THCV	Tetrahydrocannabivarin*	0.28	0.80	ND	ND	ND	
CBG	Cannabigerol†	0.28	0.493	0.441	0.444	0.443	
CBGA	Cannabigerolic acid*	0.28	0.80	ND	ND	ND	
CBC	Cannabichromene*	0.28	4.72	0.586	0.615	0.601	
CBCA	Cannabichromenic acid*	0.28	0.80	ND	ND	ND	
CBN	Cannabinol	0.28	0.80	<LOQ	<LOQ	<LOQ	
<b>Total THC</b>	<b>Δ9THC + (THCA × 0.877)</b>		5.85	0.947	0.996	0.972	
<b>Total CBD</b>	<b>CBD + (CBDA × 0.877)</b>		0.685	16.4	16.5	16.5	
<b>Total</b>			0.977	18.4	18.6	18.5	

### Compliance

Pesticides	Within limits	Analysis Date: 12/3/2019	Pass <input checked="" type="checkbox"/>
Solvents	Within limits	Analysis Date: 12/3/2019	Pass <input checked="" type="checkbox"/>
Potency	Within limits	Analysis Date: 12/3/2019	Pass <input checked="" type="checkbox"/>

*Bryce Kidd*  
Bryce Kidd, Ph.D.  
Lab Director

*Aaron Troyer*  
Aaron Troyer  
Chief Science Officer



Lightscale Labs is accredited by ORELAP (Lab #4112) for analysis in compliance with OAR 333-064 and OAR 333-087. Results pertain to submitted samples only. Unless otherwise noted, samples were received in good condition and Quality Control samples met acceptance criteria. This Certificate shall not be reproduced except in full, without the written approval of Lightscale Labs. Results marked with an asterisk (\*) are not within scope of accreditation and for informational purposes only.



# Shot-15-17

Danodan Hempworks  
 6019 NE MLK JR. BLVD.  
 PORTLAND, OR 97217  
 (503) 290-4079

Sample Type: Tinctures  
 Sample Date: 5/11/2021  
 Analysis Date: 5/12/2021  
 Report Date: 5/20/2021

Metric Batch ID:  
 Metric Sample ID:

Harvest/Process Date: 5/11/2021  
 Report ID: LS-210520-1  
 Sample Plan ID: SP-210511-1-A  
 Sample Procedure: 160721\_LAB-SOP\_SampleCollection-v008

## Potency

Potency Analysis Date: 5/14/2021  
 Potency Batch ID: CAN\_051421B  
 Potency Method: JAOAC 2015.1

**16.6 mg/mL** Total CBD 1.52%  
**0.583 mg/mL** Total THC 0.0535%



Samples: TXW-FGF-NDD, FDC-PFB-FBC

Analyte	Description	LOQ	RPD (%)	Min.	Max.	Avg.	Unit: mg/mL
<b>Δ9THC</b>	Delta-9 Tetrahydrocannabinol	0.0055	2.62	0.576	0.591	<b>0.583</b>	
<b>THCA</b>	Tetrahydrocannabinolic acid	0.0055	0.00	ND	ND	<b>ND</b>	
<b>CBD</b>	Cannabidiol	0.0055	1.37	16.1	16.4	<b>16.2</b>	
<b>CBDA</b>	Cannabidiolic acid	0.0055	1.99	0.326	0.332	<b>0.329</b>	
<b>Δ8THC</b>	Delta-8 Tetrahydrocannabinol*	0.0055	0.00	ND	ND	<b>ND</b>	
<b>THCV</b>	Tetrahydrocannabivarin*	0.0055	0.00	ND	ND	<b>ND</b>	
<b>CBG</b>	Cannabigerol*	0.0055	3.15	0.340	0.351	<b>0.346</b>	
<b>CBGA</b>	Cannabigerolic acid*	0.0055	0.00	ND	ND	<b>ND</b>	
<b>CBC</b>	Cannabichromene*	0.0055	0.461	0.707	0.711	<b>0.710</b>	
<b>CBCA</b>	Cannabichromenic acid*	0.0055	0.00	ND	ND	<b>ND</b>	
<b>CBN</b>	Cannabinol	0.0055	0.00	0.0153	0.0153	<b>0.0153</b>	
<b>Total THC</b>	Δ9THC + (THCA × 0.877)		2.62	0.576	0.591	<b>0.583</b>	
<b>Total CBD</b>	CBD + (CBDA × 0.877)		1.38	16.5	16.7	<b>16.6</b>	
<b>Total</b>			1.42	18.1	18.4	<b>18.2</b>	

## Compliance

Solvents	Within limits	Analysis Date: 5/12/2021	Pass
Potency	Within limits	Analysis Date: 5/14/2021	Pass

Bryce Kidd, Ph.D.  
 Lab Director

Aaron Troyer  
 Chief Science Officer



# Shot-15-17

Danodan Hempworks  
 6019 NE MLK JR. BLVD.  
 PORTLAND, OR 97217  
 (503) 290-4079

Sample Type: Tinctures  
 Sample Date: 5/11/2021  
 Analysis Date: 5/12/2021  
 Report Date: 5/20/2021

Metric Batch ID:  
 Metric Sample ID:

Harvest/Process Date: 5/11/2021  
 Report ID: LS-210520-1  
 Sample Plan ID: SP-210511-1-A  
 Sample Procedure: 160721\_LAB-SOP\_SampleCollection-v008

## Residual Solvents Sample Data

Solvents Analysis Date: 5/12/2021  
 Solvents Batch ID: RES\_051221A

Method: EPA 5021A  
 Unit: µg/g (ppm)

Pass 

Analyte	TXW-FGF-NDD	FDC-PFB-FBC	RPD (%)	Limits	LOQ	Notes	Status
1,4-Dioxane	ND	ND	0.00	300.0	50.0		Pass
2-Butanol	ND	ND	0.00	5000.0	250.0		Pass
2-Ethoxyethanol	ND	ND	0.00	160.0	50.0		Pass
Acetone	ND	ND	0.00	5000.0	250.0		Pass
Acetonitrile	ND	ND	0.00	410.0	50.0		Pass
Benzene	ND	ND	0.00	2.0	2.0		Pass
Butanes	ND	ND	0.00	5000.0	250.0		Pass
Cumene	ND	ND	0.00	70.0	50.0		Pass
Cyclohexane	ND	ND	0.00	3880.0	50.0		Pass
Ethyl Acetate	<LOQ	<LOQ	0.00	5000.0	250.0		Pass
Ethyl Ether	ND	ND	0.00	5000.0	250.0		Pass
Ethylene Glycol	ND	ND	0.00	620.0	250.0		Pass
Ethylene Oxide	ND	ND	0.00	50.0	50.0		Pass
Heptane	ND	ND	0.00	5000.0	250.0		Pass
Hexanes	ND	ND	0.00	290.0	50.0		Pass
Isopropanol (2-Propanol)	ND	ND	0.00	5000.0	50.0		Pass
Isopropyl Acetate	ND	ND	0.00	5000.0	250.0		Pass
Methanol	<LOQ	<LOQ	0.00	3000.0	250.0		Pass
Dichloromethane	ND	ND	0.00	600.0	50.0		Pass
Pentanes	ND	ND	0.00	5000.0	250.0		Pass
Propane	ND	ND	0.00	5000.0	250.0		Pass
Tetrahydrofuran	ND	ND	0.00	720.0	50.0		Pass
Toluene	ND	ND	0.00	890.0	50.0		Pass
Xylenes	ND	ND	0.00	2170.0	50.0		Pass

# Shot-15-17

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Sample Type: Tinctures  
 Sample Date: 5/11/2021  
 Analysis Date: 5/12/2021  
 Report Date: 5/20/2021

Metric Batch ID:  
 Metric Sample ID:

Harvest/Process Date: 5/11/2021  
 Report ID: LS-210520-1  
 Sample Plan ID: SP-210511-1-A  
 Sample Procedure: 160721\_LAB-SOP\_SampleCollection-v008

## Residual Solvents Quality Control Data

Solvents QC Analysis Date: 5/12/2021  
 Solvents QC Batch ID: RES\_051221A

Method: EPA 5021A  
 Unit: µg/g (ppm)

Analyte	Blank	LOQ	LCS	LCS Spike	LCS Rec (%)	Limits (%)	Notes
1,4-Dioxane	ND	50.0	993	1000	99.3	70 - 130	
2-Butanol	ND	250.0	916	1000	91.6	70 - 130	
2-Ethoxyethanol	ND	50.0	970	1000	97.0	70 - 130	
Acetone	ND	250.0	1020	1000	102	70 - 130	
Acetonitrile	ND	50.0	948	1000	94.8	70 - 130	
Benzene	ND	2.0	22.4	20.0	112	70 - 130	
Butanes	ND	250.0	1570	2000	78.7	70 - 130	
Cumene	ND	50.0	1000	1000	100	70 - 130	
Cyclohexane	ND	50.0	954	1000	95.4	70 - 130	
Ethyl Acetate	ND	250.0	873	1000	87.3	70 - 130	
Ethyl Ether	ND	250.0	981	1000	98.1	70 - 130	
Ethylene Glycol	ND	250.0	938	1000	93.8	70 - 130	
Ethylene Oxide	ND	50.0	893	1000	89.3	70 - 130	
Heptane	ND	250.0	815	1000	81.5	70 - 130	
Hexanes	ND	50.0	4710	5000	94.3	70 - 130	
Isopropanol (2-Propanol)	ND	50.0	954	1000	95.4	70 - 130	
Isopropyl Acetate	ND	250.0	897	1000	89.7	70 - 130	
Methanol	ND	250.0	956	1000	95.6	70 - 130	
Dichloromethane	ND	50.0	961	1000	96.1	70 - 130	
Pentanes	ND	250.0	2850	3000	94.8	70 - 130	
Propane	ND	250.0	546	1000	54.6	70 - 130	LR
Tetrahydrofuran	ND	50.0	868	1000	86.8	70 - 130	
Toluene	ND	50.0	976	1000	97.6	70 - 130	
Xylenes	ND	50.0	3880	4000	97.1	70 - 130	

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# Shot-15-17

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**Sample Type:** Tinctures  
**Sample Date:** 5/11/2021  
**Analysis Date:** 5/12/2021  
**Report Date:** 5/20/2021

**Metric Batch ID:**  
**Metric Sample ID:**

**Harvest/Process Date:** 5/11/2021  
**Report ID:** LS-210520-1  
**Sample Plan ID:** SP-210511-1-A  
**Sample Procedure:** 160721\_LAB-SOP\_SampleCollection-v008

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## Qualifier Flag Descriptions

J	Reported result is an estimate - the value is less than the minimum calibration level but greater than the estimated detection limit (EDL)
U	The analyte was not detected in the sample at the estimated detection limit (EDL)
E	Exceeds calibration range
D	Dilution data - result was obtained from the analysis of a dilution
B	Analyte found in sample and associated blank
C	Co-eluting compound
R	Relative Percent Difference (RPD) outside control limits
NR	Analyte not reported because of problems in sample preparation or analysis
ND	Non-Detect
X	Results from reinjection/repeat/re-column data
EMC	Estimated maximum possible concentration - indicates that a peak is detected but did not meet the method required criteria
M	Manual integration
PS	Peaks split
HB	Control acceptance criteria are exceeded high and the associated sample is below the detection limit
LB	Control acceptance criteria are exceeded low and the associated sample exceeds the regulatory limit
ME	Marginal Exceedance
LR	Low Recovery Analyte
LOQ	Limit of Quantitation

Sample Name: **TXW-FGF-NDD** License: **010-1003340D344**  
 Tested for: **Lightscale Labs** Date Sampled: **05/12/21 00:00**  
**Compliance Subcon - Extract** Date Accepted: **05/12/21**

Laboratory ID: **21E0077-01** Sample Metrc ID: **NA**  
 Matrix: **Other Liquid** Batch RFID: **NA**  
 Lot # **NA** Batch Size: **NA**

## Pesticide Analysis in ppm

Date Extracted: 05/18/21 Analysis Method: AOAC 2007.01 & EN 15662  
 Date Analyzed: 05/19/21 Results above the action levels are highlighted in red #.

Analyte	Result	Action Level	LOQ	Analyte	Result	Action Level	LOQ
Abamectin	< LOQ	0.5	0.24	Acephate	< LOQ	0.4	0.19
Acequinocyl	< LOQ	2	0.97	Acetamiprid	< LOQ	0.2	0.10
Aldicarb	< LOQ	0.4	0.19	Azoxystrobin	< LOQ	0.2	0.10
Bifenazate	< LOQ	0.2	0.10	Bifenthrin	< LOQ	0.2	0.10
Boscalid	< LOQ	0.4	0.19	Carbaryl	< LOQ	0.2	0.10
Carbofuran	< LOQ	0.2	0.10	Chlorantraniliprole	< LOQ	0.2	0.10
Chlorfenapyr	< LOQ	1	0.49	Chlorpyrifos	< LOQ	0.2	0.10
Clofentezine	< LOQ	0.2	0.10	Cyfluthrin	< LOQ	1	0.49
Cypermethrin	< LOQ	1	0.49	Daminozide	< LOQ	1	0.49
DDVP (Dichlorvos)	< LOQ	1	0.49	Diazinon	< LOQ	0.2	0.10
Dimethoate	< LOQ	0.2	0.10	Ethoprophos	< LOQ	0.2	0.10
Etofenprox	< LOQ	0.4	0.19	Etoxazole	< LOQ	0.2	0.10
Fenoxycarb	< LOQ	0.2	0.10	Fenpyroximate	< LOQ	0.4	0.19
Fipronil	< LOQ	0.4	0.19	Fonicamid	< LOQ	1	0.49
Fludioxonil	< LOQ	0.4	0.19	Hexythiazox	< LOQ	1	0.49
Imazalil	< LOQ	0.2	0.10	Imidacloprid	< LOQ	0.4	0.19
Kresoxim-methyl	< LOQ	0.4	0.19	Malathion	< LOQ	0.2	0.10
Metalaxyl	< LOQ	0.2	0.10	Methiocarb	< LOQ	0.2	0.10
Methomyl	< LOQ	0.4	0.19	Methyl parathion	< LOQ	0.2	0.10
MGK-264	< LOQ	0.2	0.10	Myclobutanil	< LOQ	0.2	0.10
Naled	< LOQ	0.5	0.24	Oxamyl	< LOQ	1	0.49
Paclobutrazol	< LOQ	0.4	0.19	Permethrins (total)	< LOQ	0.2	0.10
Phosmet	< LOQ	0.2	0.10	Piperonyl butoxide	< LOQ	2	0.49
Prallethrin	< LOQ	0.2	0.10	Propiconazole	< LOQ	0.4	0.19
Propoxur	< LOQ	0.2	0.10	Pyrethrins (total)	< LOQ	1	0.49
Pyridaben	< LOQ	0.2	0.10	Spinosad	< LOQ	0.2	0.10
Spiromesifen	< LOQ	0.2	0.10	Spirotetramat	< LOQ	0.2	0.10
Spiroxamine	< LOQ	0.4	0.19	Tebuconazole	< LOQ	0.4	0.19
Thiacloprid	< LOQ	0.2	0.10	Thiamethoxam	< LOQ	0.2	0.10
Trifloxystrobin	< LOQ	0.2	0.10				

<LOQ - Results below the Limit of Quantitation - Compound not detected



Shea Hamilton For Brian Weigel  
Lab Director

These results relate only to the sample included on this report. The report may not be reproduced except in full, without the written permission of SC Laboratories. Samples tested in accordance with Oregon Administrative Rules, TNI 2009 Standard and SC Laboratories quality assurance plan unless otherwise noted.

Sample Name: **FDC-PFB-FBC** License: **010-1003340D344**  
 Tested for: **Lightscale Labs** Date Sampled: **05/12/21 00:00**  
**Compliance Subcon - Extract** Date Accepted: **05/12/21**

Laboratory ID: **21E0077-02** Sample Metrc ID: **NA**  
 Matrix: **Other Liquid** Batch RFID: **NA**  
 Lot # **NA** Batch Size: **NA**

## Pesticide Analysis in ppm

Date Extracted: 05/18/21 Analysis Method: AOAC 2007.01 & EN 15662  
 Date Analyzed: 05/19/21 Results above the action levels are highlighted in red #.

Analyte	Result	Action Level	LOQ	Analyte	Result	Action Level	LOQ
Abamectin	< LOQ	0.5	0.24	Acephate	< LOQ	0.4	0.19
Acequinocyl	< LOQ	2	0.97	Acetamiprid	< LOQ	0.2	0.10
Aldicarb	< LOQ	0.4	0.19	Azoxystrobin	< LOQ	0.2	0.10
Bifenazate	< LOQ	0.2	0.10	Bifenthrin	< LOQ	0.2	0.10
Boscalid	< LOQ	0.4	0.19	Carbaryl	< LOQ	0.2	0.10
Carbofuran	< LOQ	0.2	0.10	Chlorantraniliprole	< LOQ	0.2	0.10
Chlorfenapyr	< LOQ	1	0.48	Chlorpyrifos	< LOQ	0.2	0.10
Clofentezine	< LOQ	0.2	0.10	Cyfluthrin	< LOQ	1	0.48
Cypermethrin	< LOQ	1	0.48	Daminozide	< LOQ	1	0.48
DDVP (Dichlorvos)	< LOQ	1	0.48	Diazinon	< LOQ	0.2	0.10
Dimethoate	< LOQ	0.2	0.10	Ethoprophos	< LOQ	0.2	0.10
Etofenprox	< LOQ	0.4	0.19	Etoxazole	< LOQ	0.2	0.10
Fenoxycarb	< LOQ	0.2	0.10	Fenpyroximate	< LOQ	0.4	0.19
Fipronil	< LOQ	0.4	0.19	Fonicamid	< LOQ	1	0.48
Fludioxonil	< LOQ	0.4	0.19	Hexythiazox	< LOQ	1	0.48
Imazalil	< LOQ	0.2	0.10	Imidacloprid	< LOQ	0.4	0.19
Kresoxim-methyl	< LOQ	0.4	0.19	Malathion	< LOQ	0.2	0.10
Metalaxyl	< LOQ	0.2	0.10	Methiocarb	< LOQ	0.2	0.10
Methomyl	< LOQ	0.4	0.19	Methyl parathion	< LOQ	0.2	0.10
MGK-264	< LOQ	0.2	0.10	Myclobutanil	< LOQ	0.2	0.10
Naled	< LOQ	0.5	0.24	Oxamyl	< LOQ	1	0.48
Paclobutrazol	< LOQ	0.4	0.19	Permethrins (total)	< LOQ	0.2	0.10
Phosmet	< LOQ	0.2	0.10	Piperonyl butoxide	< LOQ	2	0.48
Prallethrin	< LOQ	0.2	0.10	Propiconazole	< LOQ	0.4	0.19
Propoxur	< LOQ	0.2	0.10	Pyrethrins (total)	< LOQ	1	0.48
Pyridaben	< LOQ	0.2	0.10	Spinosad	< LOQ	0.2	0.10
Spiromesifen	< LOQ	0.2	0.10	Spirotetramat	< LOQ	0.2	0.10
Spiroxamine	< LOQ	0.4	0.19	Tebuconazole	< LOQ	0.4	0.19
Thiacloprid	< LOQ	0.2	0.10	Thiamethoxam	< LOQ	0.2	0.10
Trifloxystrobin	< LOQ	0.2	0.10				

<LOQ - Results below the Limit of Quantitation - Compound not detected



Shea Hamilton For Brian Weigel  
 Lab Director

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## Quality Control Pesticide Analysis

**Batch: B211411 - Pesticide Prep**

Blank(B211411-BLK1)			Extracted - 05/18/21 11:05 Analyzed - 05/19/21 6:55					
Analyte	Result	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit
Abamectin	< LOQ	ppm						
Acephate	< LOQ	ppm						
Acequinocyl	< LOQ	ppm						
Acetamiprid	< LOQ	ppm						
Aldicarb	< LOQ	ppm						
Azoxystrobin	< LOQ	ppm						
Bifenazate	< LOQ	ppm						
Bifenthrin	< LOQ	ppm						
Boscalid	< LOQ	ppm						
Carbaryl	< LOQ	ppm						
Carbofuran	< LOQ	ppm						
Chlorantraniliprole	< LOQ	ppm						
Chlorfenapyr	< LOQ	ppm						
Chlorpyrifos	< LOQ	ppm						
Clofentezine	< LOQ	ppm						
Cyfluthrin	< LOQ	ppm						
Cypermethrin	< LOQ	ppm						
Daminozide	< LOQ	ppm						
DDVP (Dichlorvos)	< LOQ	ppm						
Diazinon	< LOQ	ppm						
Dimethoate	< LOQ	ppm						
Ethoprophos	< LOQ	ppm						
Etofenprox	< LOQ	ppm						
Etoxazole	< LOQ	ppm						
Fenoxycarb	< LOQ	ppm						
Fenpyroximate	< LOQ	ppm						
Fipronil	< LOQ	ppm						
Fonicamid	< LOQ	ppm						
Fludioxonil	< LOQ	ppm						
Hexythiazox	< LOQ	ppm						
Imazalil	< LOQ	ppm						
Imidacloprid	< LOQ	ppm						
Kresoxim-methyl	< LOQ	ppm						
Malathion	< LOQ	ppm						
Metalaxyl	< LOQ	ppm						



Shea Hamilton For Brian Weigel  
Lab Director

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## Quality Control

### Pesticide Analysis (Continued)

**Batch: B211411 - Pesticide Prep (Continued)**

Blank(B211411-BLK1)			Extracted - 05/18/21 11:05 Analyzed - 05/19/21 6:55					
Analyte	Result	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit
Methiocarb	< LOQ	ppm						
Methomyl	< LOQ	ppm						
Methyl parathion	< LOQ	ppm						
MGK-264	< LOQ	ppm						
Myclobutanil	< LOQ	ppm						
Naled	< LOQ	ppm						
Oxamyl	< LOQ	ppm						
Paclbutrazol	< LOQ	ppm						
Permethrins (total)	< LOQ	ppm						
Phosmet	< LOQ	ppm						
Piperonyl butoxide	< LOQ	ppm						
Prallethrin	< LOQ	ppm						
Propiconazole	< LOQ	ppm						
Propoxur	< LOQ	ppm						
Pyrethrins (total)	< LOQ	ppm						
Pyridaben	< LOQ	ppm						
Spinosad	< LOQ	ppm						
Spiromesifen	< LOQ	ppm						
Spirotetramat	< LOQ	ppm						
Spiroxamine	< LOQ	ppm						
Tebuconazole	< LOQ	ppm						
Thiacloprid	< LOQ	ppm						
Thiamethoxam	< LOQ	ppm						
Trifloxystrobin	< LOQ	ppm						

LCS(B211411-BS1)			Extracted - 05/18/21 11:05 Analyzed - 05/19/21 7:11					
Analyte	Result	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit
Abamectin	1.03	ppm	0.980		106	15-180		
Acephate	0.88	ppm	1.00		87.8	70-130		
Acequinocyl	0.40	ppm	1.00		40.2	16.9-111		
Acetamiprid	1.00	ppm	1.00		99.8	70-130		
Aldicarb	0.82	ppm	1.00		82.4	70-130		
Azoxystrobin	0.96	ppm	1.00		95.5	70-130		
Bifenazate	0.80	ppm	1.00		79.6	70-130		
Bifenthrin	0.80	ppm	1.00		80.3	70-130		

  
Shea Hamilton For Brian Weigel  
Lab Director

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## Quality Control

### Pesticide Analysis (Continued)

**Batch: B211411 - Pesticide Prep (Continued)**

LCS(B211411-BS1)		Extracted - 05/18/21 11:05 Analyzed - 05/19/21 7:11						
Analyte	Result	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit
Boscalid	0.88	ppm	1.00		87.6	70-130		
Carbaryl	0.98	ppm	1.00		98.1	70-130		
Carbofuran	0.99	ppm	1.00		99.2	70-130		
Chlorantraniliprole	0.97	ppm	1.00		97.0	70-130		
Chlorfenapyr	0.99	ppm	1.00		98.8	40-160		
Chlorpyrifos	0.89	ppm	1.00		89.4	70-130		
Cinerin 1	< LOQ	ppm	0.0400		79.4	0-200		
cis-Permethrin	0.33	ppm	0.430		76.0	70-130		
Clofentezine	0.88	ppm	1.00		88.0	70-130		
Cyfluthrin	0.83	ppm	1.00		82.8	55-165		
Cypermethrin	0.96	ppm	1.00		95.9	70-130		
Daminozide	1.05	ppm	1.00		105	15-145		
DDVP (Dichlorvos)	0.82	ppm	1.00		82.3	70-130		
Diazinon	1.03	ppm	1.00		103	70-130		
Dimethoate	0.89	ppm	1.00		89.0	70-130		
Ethoprophos	0.93	ppm	1.00		92.6	70-130		
Etofenprox	0.85	ppm	1.00		85.4	70-130		
Etoxazole	1.02	ppm	1.00		102	70-130		
Fenoxycarb	0.82	ppm	1.00		81.8	70-130		
Fenpyroximate	0.91	ppm	1.00		90.9	70-130		
Fipronil	0.84	ppm	1.00		83.8	70-130		
Flonicamid	0.80	ppm	1.00		80.2	70-130		
Fludioxonil	0.88	ppm	1.00		88.1	70-130		
Hexythiazox	0.78	ppm	1.00		78.1	70-130		
Imazalil	1.00	ppm	1.00		99.7	70-130		
Imidacloprid	0.93	ppm	1.00		92.9	70-130		
Jasmolin 1	< LOQ	ppm	0.0300		108	0-200		
Kresoxim-methyl	0.94	ppm	1.00		94.1	70-130		
Malathion	0.91	ppm	1.00		91.1	70-130		
Metalaxyl	0.96	ppm	1.00		96.2	70-130		
Methiocarb	0.91	ppm	1.00		90.9	70-130		
Methomyl	0.85	ppm	1.00		85.4	70-130		
Methyl parathion	1.02	ppm	1.00		102	35-160		
MGK-264	0.47	ppm	0.590		79.9	70-130		
Myclobutanil	0.82	ppm	1.00		81.5	70-130		

  
Shea Hamilton For Brian Weigel  
Lab Director

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## Quality Control

### Pesticide Analysis (Continued)

**Batch: B211411 - Pesticide Prep (Continued)**

LCS(B211411-BS1)		Extracted - 05/18/21 11:05 Analyzed - 05/19/21 7:11						
Analyte	Result	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit
Naled	0.93	ppm	1.00		92.7	70-130		
Oxamyl	0.86	ppm	1.00		85.9	70-130		
Paclobutrazol	0.79	ppm	1.00		79.0	70-130		
Permethrins (total)	0.81	ppm	1.00		81.1	70-130		
Phosmet	0.88	ppm	1.00		87.8	70-130		
Piperonyl butoxide	0.98	ppm	1.00		98.2	70-130		
Prallethrin	0.80	ppm	1.00		80.3	70-130		
Propiconazole	0.89	ppm	1.00		89.4	70-130		
Propoxur	0.85	ppm	1.00		85.2	70-130		
Pyrethrins (total)	0.46	ppm	0.580		78.8	70-130		
Pyrethrin 1	0.39	ppm	0.510		77.0	0-200		
Pyridaben	0.86	ppm	1.00		86.3	70-130		
Spinosad	0.81	ppm	0.710		113	70-130		
Spiromesifen	0.95	ppm	1.00		95.2	70-130		
Spirotetramat	0.98	ppm	1.00		98.5	70-130		
Spiroxamine	0.97	ppm	1.00		97.2	70-130		
Tebuconazole	0.90	ppm	1.00		90.2	70-130		
Thiacloprid	0.95	ppm	1.00		94.8	70-130		
Thiamethoxam	0.85	ppm	1.00		84.8	70-130		
trans-Permethrin	0.48	ppm	0.570		84.9	70-130		
Trifloxystrobin	1.04	ppm	1.00		104	70-130		

LCS Dup(B211411-BSD1)		Extracted - 05/18/21 11:05 Analyzed - 05/19/21 7:27						
Analyte	Result	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit
Abamectin	1.09	ppm	0.980		111	15-180	5.36	30
Acephate	0.92	ppm	1.00		92.2	70-130	4.81	30
Acequinocyl	0.38	ppm	1.00		38.0	16.9-111	5.51	30
Acetamiprid	1.08	ppm	1.00		108	70-130	7.64	30
Aldicarb	0.93	ppm	1.00		93.4	70-130	12.4	30
Azoxystrobin	0.97	ppm	1.00		96.6	70-130	1.13	30
Bifenazate	0.83	ppm	1.00		83.0	70-130	4.22	30
Bifenthrin	0.81	ppm	1.00		81.0	70-130	0.814	30
Boscalid	0.88	ppm	1.00		88.4	70-130	0.911	30
Carbaryl	0.98	ppm	1.00		98.2	70-130	0.0680	30
Carbofuran	0.98	ppm	1.00		97.9	70-130	1.34	30

  
Shea Hamilton For Brian Weigel  
Lab Director

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## Quality Control Pesticide Analysis (Continued)

**Batch: B211411 - Pesticide Prep (Continued)**

LCS Dup(B211411-BSD1)		Extracted - 05/18/21 11:05 Analyzed - 05/19/21 7:27						
Analyte	Result	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit
Chlorantraniliprole	1.00	ppm	1.00		100	70-130	3.19	30
Chlorfenapyr	0.89	ppm	1.00		88.9	40-160	10.5	30
Chlorpyrifos	0.93	ppm	1.00		92.7	70-130	3.65	30
Cinerin 1	< LOQ	ppm	0.0400		77.7	0-200	2.20	30
cis-Permethrin	0.32	ppm	0.430		75.2	70-130	1.08	30
Clofentezine	0.93	ppm	1.00		93.2	70-130	5.66	30
Cyfluthrin	0.95	ppm	1.00		95.0	55-165	13.7	30
Cypermethrin	0.91	ppm	1.00		90.6	70-130	5.71	30
Daminozide	1.09	ppm	1.00		109	15-145	3.60	30
DDVP (Dichlorvos)	0.92	ppm	1.00		91.8	70-130	10.9	30
Diazinon	1.10	ppm	1.00		110	70-130	6.57	30
Dimethoate	0.92	ppm	1.00		91.5	70-130	2.80	30
Ethoprophos	0.94	ppm	1.00		94.2	70-130	1.68	30
Etofenprox	0.88	ppm	1.00		87.8	70-130	2.80	30
Etoxazole	1.04	ppm	1.00		104	70-130	1.57	30
Fenoxycarb	0.83	ppm	1.00		83.4	70-130	1.89	30
Fenpyroximate	0.92	ppm	1.00		91.5	70-130	0.669	30
Fipronil	0.85	ppm	1.00		84.6	70-130	0.931	30
Flonicamid	0.84	ppm	1.00		83.8	70-130	4.47	30
Fludioxonil	0.86	ppm	1.00		86.3	70-130	2.08	30
Hexythiazox	0.79	ppm	1.00		78.9	70-130	0.976	30
Imazalil	1.02	ppm	1.00		102	70-130	2.72	30
Imidacloprid	0.99	ppm	1.00		99.3	70-130	6.59	30
Jasmolin 1	< LOQ	ppm	0.0300		112	0-200	3.33	30
Kresoxim-methyl	0.98	ppm	1.00		97.7	70-130	3.85	30
Malathion	0.92	ppm	1.00		91.8	70-130	0.785	30
Metalaxyl	0.98	ppm	1.00		97.8	70-130	1.65	30
Methiocarb	0.93	ppm	1.00		93.4	70-130	2.71	30
Methomyl	0.85	ppm	1.00		85.4	70-130	0.0531	30
Methyl parathion	0.97	ppm	1.00		96.8	35-160	4.80	30
MGK-264	0.49	ppm	0.590		82.9	70-130	3.71	30
Myclobutanil	0.85	ppm	1.00		84.7	70-130	3.82	30
Naled	0.92	ppm	1.00		92.0	70-130	0.693	30
Oxamyl	0.90	ppm	1.00		89.9	70-130	4.54	30
Paclobutrazol	0.82	ppm	1.00		82.0	70-130	3.71	30

  
 Shea Hamilton For Brian Weigel  
 Lab Director

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## Quality Control Pesticide Analysis (Continued)

**Batch: B211411 - Pesticide Prep (Continued)**

LCS Dup(B211411-BSD1)		Extracted - 05/18/21 11:05 Analyzed - 05/19/21 7:27						
Analyte	Result	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit
Permethrins (total)	0.81	ppm	1.00		81.4	70-130	0.364	30
Phosmet	0.91	ppm	1.00		90.7	70-130	3.32	30
Piperonyl butoxide	1.00	ppm	1.00		100	70-130	2.09	30
Prallethrin	0.82	ppm	1.00		82.2	70-130	2.37	30
Propiconazole	0.94	ppm	1.00		93.9	70-130	4.91	30
Propoxur	0.86	ppm	1.00		85.8	70-130	0.689	30
Pyrethrins (total)	0.45	ppm	0.580		76.9	70-130	2.47	30
Pyrethrin 1	0.38	ppm	0.510		74.7	0-200	2.99	30
Pyridaben	0.88	ppm	1.00		87.6	70-130	1.40	30
Spinosad	0.84	ppm	0.710		119	70-130	4.71	30
Spiromesifen	0.96	ppm	1.00		95.5	70-130	0.305	30
Spirotetramat	1.01	ppm	1.00		101	70-130	2.64	30
Spiroxamine	0.99	ppm	1.00		98.6	70-130	1.50	30
Tebuconazole	0.95	ppm	1.00		94.8	70-130	4.96	30
Thiacloprid	1.02	ppm	1.00		102	70-130	7.51	30
Thiamethoxam	0.88	ppm	1.00		87.9	70-130	3.60	30
trans-Permethrin	0.49	ppm	0.570		86.0	70-130	1.33	30
Trifloxystrobin	1.05	ppm	1.00		105	70-130	1.03	30

  
 Shea Hamilton For Brian Weigel  
 Lab Director

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12423 NE Whitaker Way  
Portland, OR 97230  
503-254-1794



**Report Number:** 21-005248/D006.R00  
**Report Date:** 05/25/2021  
**ORELAP#:** OR100028  
**Purchase Order:**  
**Received:** 05/11/21 16:30

**Customer:** Danodan Hemp Works  
**Product identity:** SHOT-15-17  
**Client/Metric ID:** .  
**Laboratory ID:** 21-005248-0002

**Sample Date:** 05/11/21 09:30

### Summary

-----  
**Metals:**

Less than LOQ for all analytes.

**Microbiology:**

Less than LOQ for all analytes.  
-----



12423 NE Whitaker Way  
 Portland, OR 97230  
 503-254-1794

**Report Number:** 21-005248/D006.R00  
**Report Date:** 05/25/2021  
**ORELAP#:** OR100028  
**Purchase Order:**  
**Received:** 05/11/21 16:30



**Customer:** Danodan Hemp Works  
 6019 NE MLK Jr Blvd  
 Portland Oregon 97211  
 United States of America (USA)

**Product identity:** SHOT-15-17  
**Client/Metric ID:** .  
**Sample Date:** 05/11/21 09:30  
**Laboratory ID:** 21-005248-0002  
**Evidence of Cooling:** No  
**Temp:** 29 °C

### Sample Results

Microbiology								
Analyte	Result	Limits	Units	LOQ	Batch	Analyze	Method	Notes
Aerobic Plate Count	< LOQ		cfu/g	10	2104242	05/14/21	AOAC 990.12 (Petrifilm)	X
E.coli	< LOQ		cfu/g	10	2104240	05/14/21	AOAC 991.14 (Petrifilm)	X
Total Coliforms	< LOQ		cfu/g	10	2104240	05/14/21	AOAC 991.14 (Petrifilm)	X
Staphylococcus aureus	< LOQ		cfu/g	10	2104243	05/13/21	AOAC 2003.07	X
Mold (RAPID Petrifilm)	< LOQ		cfu/g	10	2104241	05/14/21	AOAC 2014.05 (RAPID)	X
Yeast (RAPID Petrifilm)	< LOQ		cfu/g	10	2104241	05/14/21	AOAC 2014.05 (RAPID)	X
Pseudomonas spp.	< LOQ		cfu/g	10	2104244	05/14/21	ISO 13720:1995	X
Metals								
Analyte	Result	Limits	Units	LOQ	Batch	Analyze	Method	Notes
Arsenic	< LOQ		mg/kg	0.0451	2104288	05/12/21	AOAC 2013.06 (mod.)	X
Cadmium	< LOQ		mg/kg	0.0451	2104288	05/12/21	AOAC 2013.06 (mod.)	X
Lead	< LOQ		mg/kg	0.0451	2104288	05/12/21	AOAC 2013.06 (mod.)	X
Mercury	< LOQ		mg/kg	0.0226	2104288	05/12/21	AOAC 2013.06 (mod.)	X
Nutrition								
Analyte	Result	Limits	Units	LOQ	Batch	Analyze	Method	Notes
Gluten	< LOQ		mg/kg	5.00	2104635	05/25/21	SUBCONTRACT	SU18



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**Report Date:** 05/25/2021  
**ORELAP#:** OR100028  
**Purchase Order:**  
**Received:** 05/11/21 16:30

These test results are representative of the individual sample selected and submitted by the client.

**Abbreviations**

**Limits:** Action Levels per OAR-333-007-0400, OAR-333-007-0210, OAR-333-007-0220

**Limit(s) of Quantitation (LOQ):** The minimum levels, concentrations, or quantities of a target variable (e.g., target analyte) that can be reported with a specified degree of confidence.

**Units of Measure**

cfu/g = Colony forming units per gram

mg/kg = Milligram per kilogram = parts per million (ppm)

% wt =  $\mu\text{g/g}$  divided by 10,000

**Glossary of Qualifiers**

SU18: Analysis performed by Biogen Laboratory Developments, Corbett, Oregon.

X: Not ORELAP accredited.

Approved Signatory

Derrick Tanner  
General Manager



12423 NE Whitaker Way  
 Portland, OR 97230  
 503-254-1794

**Report Number:** 21-005248/D006.R00  
**Report Date:** 05/25/2021  
**ORELAP#:** OR100028  
**Purchase Order:**  
**Received:** 05/11/21 16:30



**Hemp Products**  
**Chain of Custody Record**  
 Revision: 0.00 Control#: CF002 Rev: 02/27/2020 Eff: 02/27/2020  
 ORELAP ID: **OR100028**

21-005248

Company: Danodan Hempworks Contact: Steven Sands Street: 6019 NE MLK Jr. Blvd City: Portland State: OR Zip: 97211 <input checked="" type="checkbox"/> Email Results: Steve@danodan.com Ph: (503) 3670896 <input type="checkbox"/> Fx Results: ( ) Billing (if different):			<b>Analysis Requested</b> <table border="1"> <tr> <th>Heavy Metals</th> <th>APC</th> <th>E Coli</th> <th>Staph</th> <th>Mold/Yeast</th> <th>Pseudomonas</th> <th>Gluten</th> <th></th> </tr> <tr> <td><input checked="" type="checkbox"/></td> <td></td> </tr> </table>							Heavy Metals	APC	E Coli	Staph	Mold/Yeast	Pseudomonas	Gluten		<input checked="" type="checkbox"/>		PO Number: _____ Project Number: _____ Project Name: _____ Custom Reporting: _____ Report to State - <input type="checkbox"/> METRC or <input type="checkbox"/> Other: _____ Turn-around time: <input type="checkbox"/> Standard <input type="checkbox"/> Rush * <input type="checkbox"/> Priority Rush * <small>*Ask for availability</small> Sampled by: _____								
Heavy Metals	APC	E Coli	Staph	Mold/Yeast	Pseudomonas	Gluten																						
<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>																						
Lab ID	Client Sample Identification	Date	Heavy Metals	APC	E Coli	Staph	Mold/Yeast	Pseudomonas	Gluten	Sample Type #	Report units (potency)	Serving size (edibles)	Comments/Metric ID															
1	TB-35	4/14/21	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	T																		
2	SHOT-15-17	5/11/21	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	T																		
3	SHOT-10-10	5/11/21	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	T																		
4	TB-34	2/8/21	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	T																		
Relinquished By: Steven Sands Date: 5/14/21 Time: 1:30p			Received by: Date: 5-11-21 Time: 11:30			<b>Lab Use Only:</b> <input type="checkbox"/> Shipped Via: _____ or <input type="checkbox"/> Client drop off Evidence of cooling: <input type="checkbox"/> yes   <input type="checkbox"/> No - Temp (°C): 29 Sample in good condition: <input type="checkbox"/> yes   <input type="checkbox"/> No <input type="checkbox"/> Cash   <input type="checkbox"/> Check   <input type="checkbox"/> CC   <input type="checkbox"/> Net: Prelog storage: _____																						

† - **Sample type codes:** Topicals (L); Edibles (E); Tincture (T); Bath Salts (S); Beverages (B)  
**Report unit options:** %; mg/g; mg/serving

12423 NE Whitaker Way  
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Page 4 of 5  
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12423 NE Whitaker Way  
Portland, OR 97230  
503-254-1794



**Report Number:** 21-005248/D006.R00  
**Report Date:** 05/25/2021  
**ORELAP#:** OR100028  
**Purchase Order:**  
**Received:** 05/11/21 16:30

Explanation of QC Flag Comments:

Code	Explanation
Q	Matrix interferences affecting spike or surrogate recoveries.
Q1	Quality control result biased high. Only non-detect samples reported.
Q2	Quality control outside QC limits. Data considered estimate.
Q3	Sample concentration greater than four times the amount spiked.
Q4	Non-homogenous sample matrix, affecting RPD result and/or % recoveries.
Q5	Spike results above calibration curve.
Q6	Quality control outside QC limits. Data acceptable based on remaining QC.
R	Relative percent difference (RPD) outside control limit.
R1	RPD non-calculable, as sample or duplicate results are less than five times the LOQ.
R2	Sample replicates RPD non-calculable, as only one replicate is within the analytical range.
LOQ1	Quantitation level raised due to low sample volume and/or dilution.
LOQ2	Quantitation level raised due to matrix interference.
B	Analyte detected in method blank, but not in associated samples.
B1	The sample concentration is greater than 5 times the blank concentration.
B2	The sample concentration is less than 5 times the blank concentration.