

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.



**LIGHTSCALE
LABS**

2535 N Ross Ave
Portland, OR 97227
(503) 493-2535

info@lightscale.com
ORLAP #4112
OLCC #010-1003340D344

Shot-15-12

Danodan Hempworks

(503) 290-4079

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

Potency

Potency Analysis Date: 12/3/2019
Potency Batch ID: CAN_120319C
Potency Method: JAOAC 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	
Total THC	Δ9THC + (THCA × 0.877)		5.85	0.947	0.996	0.972	
Total CBD	CBD + (CBDA × 0.877)		0.685	16.4	16.5	16.5	
Total			0.977	18.4	18.6	18.5	

Compliance

Pesticides	Within limits	Analysis Date: 12/3/2019	Pass
Solvents	Within limits	Analysis Date: 12/3/2019	Pass
Potency	Within limits	Analysis Date: 12/3/2019	Pass

Bryce Kidd
Bryce Kidd, Ph.D.
Lab Director

Aaron Troyer
Aaron Troyer
Chief Science Officer

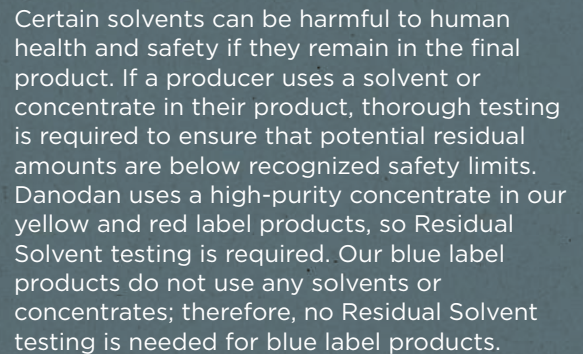
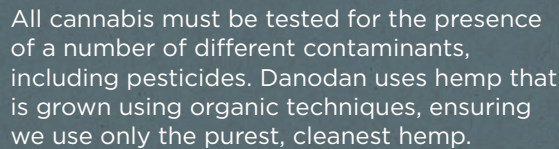


Lightscale Labs is accredited by ORLAP (Lab #4112) for analysis in compliance with OAR 333-064 and OAR 333-087. Results pertain to submitted samples only. Unless otherwise noted, samples were received in good condition and Quality Control samples met acceptance criteria. This Certificate shall not be 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.



PAGE 4-5

RESIDUAL SOLVENT DATA



	LIGHTSCALE LABS	2530 N Ross Ave Portland, OR 97227 (503) 953-2526	info@lightscale.com ORCLAP #4192 OCLG-P000-10002400204

Shot-15-12

DonorID: HemingwayA	Sample Type: Tricouline Sample Date: 12/3/2019 Analysis Date: 12/3/2019 Report Date: 12/3/2019	Metric Batch ID: Metric Sample ID:	Harvest/Process Date: 11/25/2019 Report ID: LS-191204-28
(503) 950-4279			


**Residual Solvents
Sample Data**

Solvent Analysis Date: 12/3/2019
 Solvent Batch ID: HES_002019A

Method: EPA 8200A
 Unit: ug/g (typical)

Pass 

Analyte	21st EIR PFD	TTC-CMS-IHT	PFD (%)	Limit	LOQ	Notes	Status
1,4-Dioxane	ND	ND	0.00	330.0	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
Butane	ND	ND	0.00	5000.0	250.0		Pass
Cumene	ND	ND	0.00	70.0	50.0		Pass
Cyclohexane	ND	ND	0.00	3300.0	50.0		Pass
Ethyl Acetate	ND	ND	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	200.0	50.0		Pass
Isopropyl (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
Xylene	ND	ND	0.00	700.0	50.0		Pass
Xylene	ND	ND	0.00	2170.0	50.0		Pass

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4 of 6

Shot-10-10

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: 5/14/2021

Metric Batch ID:

Metric Sample ID:

Harvest/Process Date: 5/11/2021
Report ID: LS-210514-4
Sample Plan ID: SP-210511-1-B
Sample Procedure: 160721_LAB-SOP_SampleCollection-v008

Potency

Potency Analysis Date: 5/12/2021
Potency Batch ID: CAN_051221B
Potency Method: JAOAC 2015.1

11.4 mg/mL Total CBD
1.05%

0.391 mg/mL Total THC
0.0359%

Samples: RHZ-PBZ-DDD, RCG-MWT-WBR



Analyte	Description	LOQ	RPD (%)	Min.	Max.	Avg.	Unit: mg/mL
Δ9THC	Delta-9 Tetrahydrocannabinol	0.0055	2.79	0.386	0.397	0.391	
THCA	Tetrahydrocannabinolic acid	0.0055	0.00	ND	ND	ND	
CBD	Cannabidiol	0.0055	0.0774	11.2	11.2	11.2	
CBDA	Cannabidiolic acid	0.0055	1.57	0.207	0.210	0.209	
Δ8THC	Delta-8 Tetrahydrocannabinol*	0.0055	0.00	ND	ND	ND	
THCV	Tetrahydrocannabivarin*	0.0055	0.00	ND	ND	ND	
CBG	Cannabigerol*	0.0055	0.990	0.219	0.221	0.220	
CBGA	Cannabigerolic acid*	0.0055	0.00	ND	ND	ND	
CBC	Cannabichromene*	0.0055	1.43	0.455	0.461	0.458	
CBCA	Cannabichromenic acid*	0.0055	0.00	ND	ND	ND	
CBN	Cannabinol	0.0055	0.00	0.0109	0.0109	0.0109	
Total THC	Δ9THC + (THCA × 0.877)		2.79	0.386	0.397	0.391	
Total CBD	CBD + (CBDA × 0.877)		0.101	11.4	11.4	11.4	
Total			0.0434	12.5	12.5	12.5	

Compliance

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


Bryce Kidd, Ph.D.
Lab Director


Aaron Troyer
Chief Science Officer



Shot-10-10

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: 5/14/2021

Metric Batch ID:

Metric Sample ID:

Harvest/Process Date: 5/11/2021
Report ID: LS-210514-4
Sample Plan ID: SP-210511-1-B
Sample Procedure: 160721_LAB-
SOP_SampleCollection-v008

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



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



Report Number: 21-005248/D003.R00
Report Date: 05/18/2021
ORELAP#: OR100028
Purchase Order:
Received: 05/11/21 16:30

Customer: Danodan Hemp Works
Product identity: SHOT-10-10
Client/Metric ID: .
Laboratory ID: 21-005248-0003

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/D003.R00
Report Date: 05/18/2021
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-10-10
Client/Metric ID: .
Sample Date: 05/11/21 09:30
Laboratory ID: 21-005248-0003
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	0.0497	2104288	05/12/21	AOAC 2013.06 (mod.)	X
Cadmium	< LOQ		mg/kg	0.0497	2104288	05/12/21	AOAC 2013.06 (mod.)	X
Lead	< LOQ		mg/kg	0.0497	2104288	05/12/21	AOAC 2013.06 (mod.)	X
Mercury	< LOQ		mg/kg	0.0249	2104288	05/12/21	AOAC 2013.06 (mod.)	X

Nutrition

Analyte	Result	Limits	Units	LOQ	Batch	Analyze	Method	Notes
Gluten	< LOQ		mg/kg	5.0	2104341	05/13/21	AOAC 991.19 (mod.)	X Q1



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Report Number: 21-005248/D003.R00
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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

X: Not ORELAP accredited.

Approved Signatory

Derrick Tanner
General Manager



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



Report Number: 21-005248/D003.R00
Report Date: 05/18/2021
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):			Analysis Requested							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 * *Ask for availability Sampled by: _____			
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	✓	✓	✓	✓	✓	✓	✓	T			
2	SHOT-15-17	5/11/21	✓	✓	✓	✓	✓	✓	✓	T			
3	SHOT-10-10	5/11/21	✓	✓	✓	✓	✓	✓	✓	T			
4	TB-34	2/8/21	✓	✓	✓	✓	✓	✓	✓	T			
Relinquished By: Steven Sands			Date: 5/11/21	Time: 4:30p	Received by: [Signature]			Date: 5-11-21	Time: 1:30	Lab Use Only: <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 (T); Edibles (E); Tincture (T); Bath Salts (S); Beverages (B)
Report unit options: %; mg/g; mg/serving

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Page 1 of 1
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12423 NE Whitaker Way
Portland, OR 97230
503-254-1794



Report Number: 21-005248/D003.R00
Report Date: 05/18/2021
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.