

Active-01

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

Sample Type: Tinctures
 Sample Date: 3/30/2021
 Analysis Date: 4/1/2021
 Report Date: 4/6/2021

Metric Batch ID:
 Metric Sample ID:

Harvest/Process Date: 3/29/2021
 Report ID: LS-210405-47
 Sample Plan ID: SP-210330-4-Q-T
 Sample Procedure: 160721_LAB-SOP_SampleCollection-v008

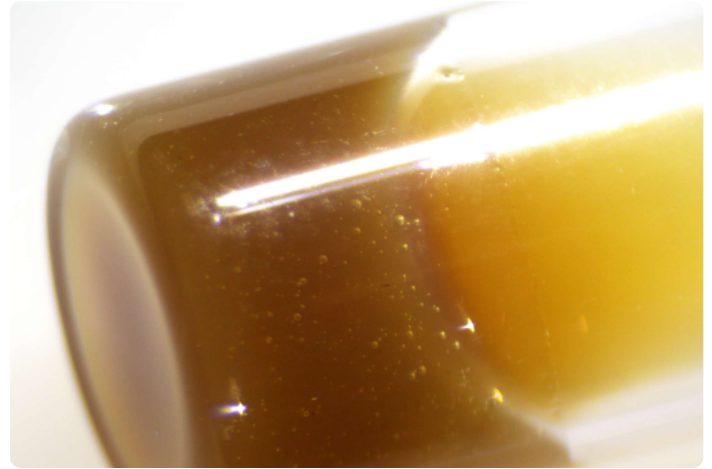
Potency

Potency Analysis Date: 4/1/2021
 Potency Batch ID: CAN_040121D
 Potency Method: JAOAC 2015.1

17.4 mg/mL Total CBD
 1.51%

0.681 mg/mL Total THC
 0.0591%

Samples: TPS-GJR-CGF, FCZ-XDS-WHS, PMD-RHM-NSN, PNZ-FCJ-FZT, WBB-CDT-GMZ, JDM-DWR-CPH, RMT-CJD-NPR, XRD-TTP-HWN



Analyte	Description	LOQ	RSD (%)	Min.	Max.	Avg.	Unit: mg/mL
Δ9THC	Delta-9 Tetrahydrocannabinol	0.0058	3.74	0.651	0.725	0.681	
THCA	Tetrahydrocannabinolic acid	0.0058	0.00	ND	ND	ND	
CBD	Cannabidiol	0.0058	1.39	17.2	17.9	17.4	
CBDA	Cannabidiolic acid	0.0058	5.46	0.0357	0.0427	0.0382	
Δ8THC	Delta-8 Tetrahydrocannabinol*	0.0058	0.00	ND	ND	ND	
THCV	Tetrahydrocannabivarin*	0.0058	0.00	ND	ND	ND	
CBG	Cannabigerol*	0.0058	1.88	0.225	0.238	0.233	
CBGA	Cannabigerolic acid*	0.0058	0.00	ND	ND	ND	
CBC	Cannabichromene*	0.0058	3.30	0.547	0.598	0.570	
CBCA	Cannabichromenic acid*	0.0058	0.00	ND	ND	ND	
CBN	Cannabinol	0.0058	4.69	0.0242	0.0277	0.0261	
Total THC	Δ9THC + (THCA × 0.877)		3.74	0.651	0.725	0.681	
Total CBD	CBD + (CBDA × 0.877)		1.38	17.2	18.0	17.4	
Total			1.42	18.7	19.5	18.9	

Compliance

Potency Within limits Analysis Date: 4/1/2021 Pass

Bryce Kidd, Ph.D.
 Lab Director

Aaron Troyer
 Chief Science Officer



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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

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	0.368	
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 <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.

HOW TO READ OUR CERTIFICATE OF ANALYSIS (COA)

PAGE 2-3 PESTICIDE DATA



All cannabis must be tested for the presence of a number of different contaminants, including pesticides. Danodan uses hemp that is grown using organic techniques, ensuring we use only the purest, cleanest hemp.

PAGE 4-5 RESIDUAL SOLVENT DATA



Certain solvents can be harmful to human health and safety if they remain in the final product. If a producer uses a solvent or concentrate in their product, thorough testing is required to ensure that potential residual amounts are below recognized safety limits. Danodan uses a high-purity concentrate in our yellow and red label products, so Residual Solvent testing is required. Our blue label products do not use any solvents or concentrates; therefore, no Residual Solvent testing is needed for blue label products.

Shot-15-12

Harvest/Process Date: 11/25/2019
Report ID: **LS-191204-28**

Sample Type: Tincture
Sample Date: 12/22/2019
Analysis Date: 12/23/2019
Report Date: 12/23/2019

Method: EN 15662
S/N: J019 (S/N)

Pesticides Sample Data

Analyte	ZLN-PDF-PPD	TTI-ONS-SMT	Limits	LOQ	Notes	Status
Abamectin	ND	ND	0.5	0.1	Pass	Pass
Acetamiprid	ND	ND	0.4	0.1	Pass	Pass
Azinphosmethyl	ND	ND	2.0	1.5	Pass	Pass
Acetamiprid	ND	ND	0.2	0.1	Pass	Pass
Aldicarb	ND	ND	0.4	0.1	Pass	Pass
Azinphosmethyl	ND	ND	0.2	0.1	Pass	Pass
Bifenthrin	ND	ND	0.2	0.1	Pass	Pass
Bifenthrin	ND	ND	0.2	0.1	Pass	Pass
Bifenthrin	ND	ND	0.4	0.1	Pass	Pass
Carbaryl	ND	ND	0.2	0.1	Pass	Pass
Carbofuran	ND	ND	0.2	0.1	Pass	Pass
Chlorantraniliprole	ND	ND	0.2	0.1	Pass	Pass
Chlorantraniliprole	ND	ND	1.0	0.1	Pass	Pass
Chlorpyrifos	ND	ND	0.2	0.1	Pass	Pass
Chlorpyrifos	ND	ND	0.2	0.1	Pass	Pass
Cyfluthrin	ND	ND	1.0	0.5	Pass	Pass
Cyfluthrin	ND	ND	1.0	0.1	Pass	Pass
Cyfluthrin	ND	ND	1.0	0.5	Pass	Pass
Deltamethrin	ND	ND	1.0	0.5	Pass	Pass
Deltamethrin	ND	ND	0.2	0.1	Pass	Pass
Deltamethrin (ZOV)	ND	ND	1.0	0.5	Pass	Pass
Deltamethrin	ND	ND	0.2	0.1	Pass	Pass
Ethioniazide	ND	ND	0.2	0.1	Pass	Pass
Ethioniazide	ND	ND	0.4	0.1	Pass	Pass
Ethioniazide	ND	ND	0.2	0.1	Pass	Pass
Ethioniazide	ND	ND	0.2	0.1	Pass	Pass
Fenoxycarb	ND	ND	0.2	0.1	Pass	Pass
Fenoxycarb	ND	ND	0.4	0.1	Pass	Pass
Fenoxycarb	ND	ND	0.4	0.1	Pass	Pass
Fenoxycarb	ND	ND	1.0	0.1	Pass	Pass
Fluometoachlor	ND	ND	0.4	0.1	Pass	Pass
Fluometoachlor	ND	ND	1.0	0.1	Pass	Pass
Imidacloprid	ND	ND	0.4	0.1	Pass	Pass
Imidacloprid	ND	ND	0.4	0.1	Pass	Pass
Malathion	ND	ND	0.2	0.1	Pass	Pass

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Shot-15-12

Harvest/Process Date: 11/25/2019
Report ID: **LS-191204-28**

Sample Type: Tincture
Sample Date: 12/22/2019
Analysis Date: 12/23/2019
Report Date: 12/23/2019

Method: EPA 8210A
S/N: J019 (S/N)

Residual Solvents Sample Data

Analyte	ZLN-PDF-PPD	TTI-ONS-SMT	RPD (%)	Limits	LOQ	Notes	Status
1,4-Dioxane	ND	ND	0.00	300.0	50.0	Pass	Pass
2-Butanol	ND	ND	0.00	5000.0	250.0	Pass	Pass
2-Ethoxyethanol	ND	ND	0.00	100.0	50.0	Pass	Pass
Acetone	ND	ND	0.00	5000.0	250.0	Pass	Pass
Acetonitrile	ND	ND	0.00	400.0	50.0	Pass	Pass
Benzene	ND	ND	0.00	2.0	2.0	Pass	Pass
Butane	ND	ND	0.00	5000.0	250.0	Pass	Pass
Cumene	ND	ND	0.00	70.0	50.0	Pass	Pass
Cyclohexane	ND	ND	0.00	3000.0	50.0	Pass	Pass
Ethyl acetate	ND	ND	0.00	5000.0	250.0	Pass	Pass
Ethyl ether	ND	ND	0.00	5000.0	250.0	Pass	Pass
Ethylene Glycol	ND	ND	0.00	620.0	250.0	Pass	Pass
Ethylene Glycol	ND	ND	0.00	50.0	50.0	Pass	Pass
Heptane	ND	ND	0.00	5000.0	250.0	Pass	Pass
Hexane	ND	ND	0.00	200.0	50.0	Pass	Pass
Isopropanol (1-Propanol)	ND	ND	0.00	5000.0	250.0	Pass	Pass
Isopropyl Acetate	ND	ND	0.00	5000.0	250.0	Pass	Pass
Methanol	<LOQ	<LOQ	0.00	3000.0	250.0	Pass	Pass
Diethylmethane	ND	ND	0.00	600.0	50.0	Pass	Pass
Pentane	ND	ND	0.00	5000.0	250.0	Pass	Pass
Propane	ND	ND	0.00	5000.0	250.0	Pass	Pass
Tetrahydrofuran	ND	ND	0.00	720.0	50.0	Pass	Pass
Toluene	ND	ND	0.00	800.0	50.0	Pass	Pass
Xylene	ND	ND	0.00	2170.0	50.0	Pass	Pass

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LOQ - (Limit of Quantitation):

The lowest quantity of a substance that can be reliably measured. If a product measures <LOQ, that means that the substance was detected, but at levels below which it can be accurately measured. This is different from ND, which means that none of that substance was detected.

RPD (%) - Relative Percent Difference:

Each sample we send to the lab is tested multiple times, and the results of the various tests are averaged to give the final results. RPD represents the average variation in measurement of a certain substance between multiple rounds of testing