

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

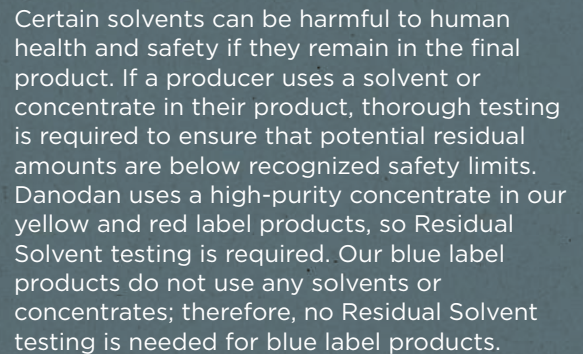
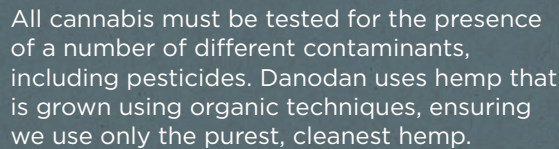
Aaron Troyer
Aaron Troyer
Chief Science Officer



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

[illegible]

Sleep-03

Danodan Hempworks
AG-R1058177IHH
6019 NE MLK JR. BLVD.
PORTLAND, OR 97217
(503) 290-4079

Harvest/Process Date: 1/27/2022
Sample Date: 2/1/2022
Analysis Date: 2/3/2022
Report Date: 2/7/2022
Report ID: LS-220207-14

Client Batch ID: Sleep-03
Metr Batch ID:
Metr Sample ID:

Sample Type: Tinctures
Sample Plan:
WW-MG-FC-ZT_20220201_1A
Sample Procedure:
160721_LAB-SOP_SampleCollection-v010

Potency

Potency Analysis Date: 2/3/2022
Potency Batch ID: CAN_020322C
Potency Method: JAOAC 2015.1

Unit Potency:
30 ml retail unit
1.05 mg THC per 2.0 ml serving
31.06 mg CBD per 2.0 ml serving

15.6 mg/mL **Total CBD 1.43%**

0.525 mg/mL **Total THC 0.0482%**

Samples: BGH-PHN-PRH, XTX-CJB-CDB



Analyte	Description	LOQ	RPD (%)	Min.	Max.	Avg.	Unit: mg/mL
Δ9THC	Delta-9 Tetrahydrocannabinol	0.011	7.05	0.506	0.543	0.525	
THCA	Tetrahydrocannabinolic acid	0.011	0.00	ND	ND	ND	
CBD	Cannabidiol	0.011	0.525	15.4	15.4	15.4	
CBDA	Cannabidiolic acid	0.011	1.53	0.211	0.215	0.213	
Δ8THC	Delta-8 Tetrahydrocannabinol*	0.011	0.00	ND	ND	ND	
THCV	Tetrahydrocannabivarin*	0.011	0.00	ND	ND	ND	
CBG	Cannabigerol*	0.011	1.89	0.399	0.406	0.403	
CBGA	Cannabigerolic acid*	0.011	0.00	ND	ND	ND	
CBC	Cannabichromene*	0.011	2.37	0.636	0.651	0.644	
CBCA	Cannabichromenic acid*	0.011	0.00	ND	ND	ND	
CBN	Cannabinol*	0.011	0.00	0.0185	0.0185	0.0185	
Total THC	Δ9THC + (THCA × 0.877)		7.05	0.506	0.543	0.525	
Total CBD	CBD + (CBDA × 0.877)		0.500	15.5	15.6	15.6	
Total			0.800	17.1	17.2	17.1	

Compliance

Potency Within limits Analysis Date: 2/3/2022 Pass 


Aaron Troyer
Chief Science Officer



Sleep-03

Danodan Hempworks
AG-R1058177IHH
6019 NE MLK JR. BLVD.
PORTLAND, OR 97217
(503) 290-4079

Harvest/Process Date: 1/27/2022
Sample Date: 2/1/2022
Analysis Date: 2/3/2022
Report Date: 2/7/2022
Report ID: LS-220207-14

Client Batch ID: Sleep-03
Metric Batch ID:
Metric Sample ID:

Sample Type: Tinctures
Sample Plan:
WW-MG-FC-ZT_20220201_1A
Sample Procedure:
160721_LAB-SOP_SampleCollection-v010



Potency Quality Control Data

Potency QC Analysis Date: 2/3/2022
Potency QC Batch ID: CAN_020322C

Method: JAOAC 2015.1
Unit: µg/g (ppm)

Analyte	Blank	LOQ	LCS	LCS Spike	LCS Rec (%)	Limits (%)	Notes
Δ9THC	ND	0.011	21.4	21.0	102	80 - 120	
THCA	ND	0.011	20.7	21.4	96.6	80 - 120	
CBD	ND	0.011	22.9	23.0	99.4	80 - 120	
CBDA	ND	0.011	18.1	19.5	92.8	80 - 120	

POTENCY - LIMIT OF DETECTION

Verified: 060221

Method: 160819_LAB-SOP_MethodValidation-CannabinoidPotency-v002.docx

Matrix	Analyte	LOD (ppm)	LOD (mg/g)
EXTRACT	Δ9THC	2.8	0.0028
	THCA	0.56	0.00056
	CBD	2.22	0.00222
	CBDA	0.52	0.00052
FLOWER	Δ9THC	1.88	0.00188
	THCA	5.32	0.00532
	CBD	1.31	0.00131
	CBDA	0.78	0.00078

Sleep-03

Danodan Hempworks
AG-R1058177IHH
6019 NE MLK JR. BLVD.
PORTLAND, OR 97217
(503) 290-4079

Harvest/Process Date: 1/27/2022
Sample Date: 2/1/2022
Analysis Date: 2/3/2022
Report Date: 2/7/2022
Report ID: LS-220207-14

Client Batch ID: Sleep-03
MetrC Batch ID:
MetrC Sample ID:

Sample Type: Tinctures
Sample Plan:
WW-MG-FC-ZT_20220201_1A
Sample Procedure:
160721_LAB-SOP_SampleCollection-v010

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