

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.

# Sleep-06

Danodan Hempworks  
 AG-R1058171HH  
 6019 NE MLK JR. BLVD.  
 PORTLAND, OR 97217  
 360-281-3251

Harvest/Process Date: 6/1/2023  
 Sample Date: 6/2/2023  
 Analysis Date: 6/15/2023  
 Report Date: 6/19/2023  
 Report ID: LS-230606-9

Client Batch ID:  
 Metrc Batch ID:  
 Metrc Sample ID:

Sample Type: Tinctures  
 Sample Plan:  
 MB-FM-JB-WN\_20230602\_1A  
 Sample Procedure:  
 160721\_LAB-SOP\_SampleCollection-v010

## Potency

Potency Analysis Date: 6/15/2023  
 Potency Batch ID: CAN\_061623A  
 Potency Method: JAOAC 2015.1

Unit Potency:  
 30 ml retail unit, 1.089 g/mL density  
 18.41 mg THC/460.7 mg CBD per retail unit  
 1.23 mg THC per 2.0 ml serving  
 30.72 mg CBD per 2.0 ml serving

**15.4 mg/mL**

**Total CBD  
1.41%**

**0.614 mg/mL**

**Total THC  
0.0564%**

Samples: SRT-PBN-MBW, TFC-DTT-PZN



Analyte	Description	LOQ	RPD (%)	Min.	Max.	Avg.	Unit: mg/mL
<b>Δ9THC</b>	Delta-9 Tetrahydrocannabinol	0.054	0.887	0.611	0.616	<b>0.614</b>	
<b>THCA</b>	Tetrahydrocannabinolic acid	0.054	0.00	ND	ND	<b>ND</b>	
<b>CBD</b>	Cannabidiol	0.054	3.14	14.8	15.2	<b>15.0</b>	
<b>CBDA</b>	Cannabidiolic acid	0.054	7.43	0.325	0.350	<b>0.338</b>	
<b>Δ8THC</b>	Delta-8 Tetrahydrocannabinol	0.054	0.00	ND	ND	<b>ND</b>	
<b>THCV</b>	Tetrahydrocannabivarin*	0.054	0.816	0.266	0.268	0.267	
<b>CBG</b>	Cannabigerol*	0.054	4.95	0.493	0.518	0.506	
<b>CBGA</b>	Cannabigerolic acid*	0.054	0.00	ND	ND	<b>ND</b>	
<b>CBC</b>	Cannabichromene*	0.054	1.90	0.796	0.811	0.804	
<b>CBCA</b>	Cannabichromenic acid*	0.054	0.00	ND	ND	<b>ND</b>	
<b>CBN</b>	Cannabinol*	0.054	0.985	0.110	0.111	0.111	
<b>THCVA</b>	Tetrahydrocannabivarinic acid*	0.054	0.00	ND	ND	<b>ND</b>	
<b>CBDVA</b>	Cannabidivarinic acid*	0.054	0.00	ND	ND	<b>ND</b>	
<b>CBDV</b>	Cannabidivarin*	0.054	0.00	ND	ND	<b>ND</b>	
<b>CBNA</b>	Cannabinolic acid*	0.054	0.00	ND	ND	<b>ND</b>	
<b>CBL</b>	Cannabicyclol*	0.054	0.00	ND	ND	<b>ND</b>	
<b>Total THC</b>	Δ9THC + (THCA × 0.877)		0.887	0.611	0.616	<b>0.614</b>	
<b>Total CBD</b>	CBD + (CBDA × 0.877)		3.22	15.1	15.6	<b>15.4</b>	
<b>Total</b>			3.01	17.4	18.0	17.8	

## Compliance

Potency Within limits Analysis Date: 6/15/2023 Pass 

Aaron Troyer  
 Chief Science Officer



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# Sleep-06

Danodan Hempworks  
 AG-R1058177IHH  
 6019 NE MLK JR. BLVD.  
 PORTLAND, OR 97217  
 360-281-3251

Harvest/Process Date: 6/1/2023  
 Sample Date: 6/2/2023  
 Analysis Date: 6/15/2023  
 Report Date: 6/19/2023  
 Report ID: LS-230606-9

Client Batch ID:  
 Metrc Batch ID:  
 Metrc Sample ID:

Sample Type: Tinctures  
 Sample Plan:  
 MB-FM-JB-WN\_20230602\_1A  
 Sample Procedure:  
 160721\_LAB-SOP\_SampleCollection-v010

## Potency Quality Control Data

Potency QC Analysis Date: 6/15/2023  
 Potency QC Batch ID: CAN\_061623A

Method: JAOAC 2015.1  
 Unit: µg/g (ppm)

Analyte	Blank	LOQ	LCS	LCS Spike	LCS Rec (%)	Limits (%)	Notes
Δ9THC	ND	0.050	132.6	124.2	107	90 - 110	
THCA	ND	0.050	84.41	79.36	106	90 - 110	
CBD	ND	0.050	157.9	148.6	106	90 - 110	
CBDA	ND	0.050	86.08	81.40	106	90 - 110	
Δ8THC	ND	0.050	11.49	11.60	99.0	90 - 110	

### 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-06

Danodan Hempworks  
AG-R1058177IHH  
6019 NE MLK JR. BLVD.  
PORTLAND, OR 97217  
360-281-3251

Harvest/Process Date: 6/1/2023  
Sample Date: 6/2/2023  
Analysis Date: 6/15/2023  
Report Date: 6/19/2023  
Report ID: LS-230606-9

Client Batch ID:  
Metrac Batch ID:  
  
Metrac Sample ID:

Sample Type: Tinctures  
Sample Plan:  
MB-FM-JB-WN\_20230602\_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



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



**Report Number:** 23-006588/D005.R000  
**Report Date:** 06/15/2023  
**ORELAP#:** OR100028  
**Purchase Order:**  
**Received:** 06/02/23 15:25

**Customer:** Danodan Hemp Works  
**Product identity:** Sleep-06  
**Client/Metric ID:** .  
**Laboratory ID:** 23-006588-0001

## Summary

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**Metals:**

Less than LOQ for all analytes.

**Microbiology:**

Less than LOQ for all analytes.

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



**Report Number:** 23-006588/D005.R000  
**Report Date:** 06/15/2023  
**ORELAP#:** OR100028  
**Purchase Order:**  
**Received:** 06/02/23 15:25

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

**Product identity:** Sleep-06  
**Client/Metric ID:** .  
**Sample Date:**  
**Laboratory ID:** 23-006588-0001  
**Evidence of Cooling:** No  
**Temp:** 26.3  
**Relinquished by:** client

### Sample Results

#### Microbiology

Analyte	Result	Limits	Units	LOQ	Batch	Analyzed Method	Status	Notes
Aerobic Plate Count	< LOQ		cfu/g	10	2307878	06/05/23 AOAC 990.12 (Petrifilm) <sup>P</sup>		
E.coli	< LOQ		cfu/g	10	2307876	06/05/23 AOAC 991.14 (Petrifilm) <sup>P</sup>		
Total Coliforms	< LOQ		cfu/g	10	2307876	06/05/23 AOAC 991.14 (Petrifilm) <sup>P</sup>		
Staphylococcus aureus	< LOQ		cfu/g	10	2307879	06/04/23 AOAC 2003.07		
Mold (RAPID Petrifilm)	< LOQ		cfu/g	10	2307877	06/05/23 AOAC 2014.05 (RAPID) <sup>P</sup>		
Yeast (RAPID Petrifilm)	< LOQ		cfu/g	10	2307877	06/05/23 AOAC 2014.05 (RAPID) <sup>P</sup>		
Pseudomonas spp.	< LOQ		cfu/g	10	2307883	06/05/23 ISO 13720:1995		

#### Allergens

Analyte	Result	Limits	Units	LOQ	Batch	Analyzed Method	Status	Notes
Allergens: Gluten	< LOQ		mg/kg	5.0	2307922	06/05/23 AOAC 2012.01 <sup>P</sup>		

#### Metals

Analyte	Result	Limits	Units	LOQ	Batch	Analyzed Method	Status	Notes
Arsenic <sup>Y</sup>	< LOQ	0.200	mg/kg	0.0851	2307999	06/07/23 AOAC 2013.06 (mod.) <sup>P</sup>	pass	
Cadmium <sup>Y</sup>	< LOQ	0.200	mg/kg	0.0851	2307999	06/07/23 AOAC 2013.06 (mod.) <sup>P</sup>	pass	
Lead <sup>Y</sup>	< LOQ	0.500	mg/kg	0.2000	2308053	06/14/23 AOAC 2013.06 (mod.) <sup>P</sup>	pass	
Mercury <sup>Y</sup>	< LOQ	0.100	mg/kg	0.0426	2307999	06/07/23 AOAC 2013.06 (mod.) <sup>P</sup>	pass	





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503-254-1794



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**Purchase Order:**  
**Received:** 06/02/23 15:25

**Abbreviations**

**Limits:** Action Levels per OAR-333-007-0400, OAR-333-007-0210, OAR-333-007-0220, CCR title 16-division 42. BCC-section 5723

**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.

Ⓐ = ISO/IEC 17025:2017 accredited method.

Ⓜ = TNI accredited analyte.

**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

Approved Signatory

Derrick Tanner  
General Manager



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



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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.