

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.

CANNABINOID POTENCY



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.



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



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



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





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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.



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



Danodan Hempworks AG-R10581771HH 6019 NE MLK JR. BLVD. PORTLAND, OR 97217 (503) 290-4079 Harvest/Process Date: 1/17/2022 Sample Date: 2/8/2022 Analysis Date: 2/10/2022

Report Date: 2/15/2022 Report ID: LS-220215-2 Client Batch ID: CBDA+-01 Metrc Batch ID:

Metrc Sample ID:

Sample Type: Tinctures
Sample Plan:
MF-CN-CN-WZ_20220208_1A

Sample Procedure:

160721_LAB-SOP_SampleCollection-v010

Potency

Potency Analysis Date: 2/10/2022 Potency Batch ID:CAN_021022A Potency Method: JAOAC 2015.1 Unit Potency: 30 ml retail unit 0.17 mg THC per 2.0 ml serving 6.66 mg CBD per 2.0 ml serving

3.33 mg/mL

Total CBD 0.282%

0.0856 mg/mL

Total THC 0.00725%

Samples: HDS-ZSN-SHW, GMG-HHM-BMT



Analyte	Description	LOQ	RPD (%)	Min.	Max.	Avg.	Unit: mg/mL
Д9ТНС	Delta-9 Tetrahydrocannabinol	0.012	48.4	0.0425	0.0696	0.0561	•
THCA	Tetrahydrocannabinolic acid	0.012	3.51	0.0330	0.0342	0.0336	•
CBD	Cannabidiol	0.012	3.41	0.817	0.845	0.831	
CBDA	Cannabidiolic acid	0.012	1.32	2.83	2.87	2.86	
Δ8ΤΗC	Delta-8 Tetrahydrocannabinol*	0.012	0.00	ND	ND	ND	
THCV	Tetrahydrocannabivarin*	0.012	0.00	ND	ND	ND	
CBG	Cannabigerol*	0.012	10.5	0.0212	0.0236	0.0224	•
CBGA	Cannabigerolic acid*	0.012	0.00	ND	ND	ND	
CBC	Cannabichromene*	0.012	12.1	0.0366	0.0413	0.0389	•
CBCA	Cannabichromenic acid*	0.012	0.00	ND	ND	ND	
CBN	Cannabinol*	0.012	0.00	<l0q< td=""><td><l0q< td=""><td><l0q< td=""><td></td></l0q<></td></l0q<></td></l0q<>	<l0q< td=""><td><l0q< td=""><td></td></l0q<></td></l0q<>	<l0q< td=""><td></td></l0q<>	
Total THC	Δ9THC + (THCA × 0.877)		32.9	0.0715	0.0996	0.0856	•
Total CBD	CBD + (CBDA × 0.877)		1.84	3.30	3.36	3.33	
Total			2.65	3.79	3.88	3.84	

Compliance

Pesticides	Within limits	Analysis Date: 2/10/2022	Pass 🛇
Potency	Within limits	Analysis Date: 2/10/2022	Pass 🛇

Aaron Troyer
Chief Science Officer



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Danodan Hempworks AG-R1058177IHH 6019 NE MLK JR. BLVD. PORTLAND, OR 97217 (503) 290-4079 Harvest/Process Date: 1/17/2022 Sample Date: 2/8/2022 Analysis Date: 2/10/2022

Report Date: 2/15/2022 Report ID: LS-220215-2 Client Batch ID: CBDA+-01

Metrc Batch ID:

Metrc Sample ID:

Sample Type: Tinctures

Sample Plan:

MF-CN-CN-WZ_20220208_1A

Sample Procedure:

160721_LAB-SOP_SampleCollection-v010

Potency
Quality Control Data

Potency QC Analysis Date: 2/10/2022 Potency QC Batch ID: CAN_021022A Method: JAOAC 2015.1 Unit: μg/g (ppm)

Analyte	Blank	LOQ	LCS	LCS Spike	LCS Rec (%)	Limits (%)	Notes
Δ9ΤΗC	ND	0.012	22.3	21.0	106	80 - 120	
THCA	ND	0.012	22.5	21.4	105	80 - 120	
CBD	ND	0.012	25.5	23.0	111	80 - 120	
CBDA	ND	0.012	20.8	19.5	106	80 - 120	

POTENCY - LIMIT OF DETECTION

Verified: 060221

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

Matrix	Analyte	LOD (ppm)	LOD (mg/g)
EXTRACT	Δ9ΤΗC	2.8	0.0028
	THCA	0.56	0.00056
	CBD	2.22	0.00222
	CBDA	0.52	0.00052
FLOWER	Δ9ΤΗC	1.88	0.00188
	THCA	5.32	0.00532
	CBD	1.31	0.00131
	CBDA	0.78	0.00078



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

Harvest/Process Date: 1/17/2022 Sample Date: 2/8/2022

Analysis Date: 2/10/2022 Report Date: 2/15/2022 Report ID: LS-220215-2

Client Batch ID: CBDA+-01

Metrc Batch ID: Metrc Sample ID:

Sample Type: Tinctures Sample Plan:

MF-CN-CN-WZ_20220208_1A

Sample Procedure:

160721_LAB-SOP_SampleCollection-v010

Pesticides Sample Data Pesticides Analysis Date: 2/10/2022 Pesticides Batch IDs: PST_021022B_1,

Unit: µg/g (ppm) Method: AOAC 2007.01 & EN 15662

Pass 🕢

PST 021022A 1

Analyte HDS-ZSN-SHW GMG-HHM-BMT Limits LOQ Notes Status Metalaxyl ND ND 0.2 0.2 Pass Methiocarb ND 0.2 0.2 Pass Methomyl ND ND 9.4 0.2 Pass 0.2 0.2 Methyl Parathion ND Pass MGK-264 ND ND 0.2 0.2 Pass Myclobutanil ND 0.2 Pass Naled ND ND 0.5 0.4 Pass 0xamy1 ND ND 1.0 0.2 Pass Paclobutrazol ND ND 0.4 0.2 Pass Permethrins 0.2 ND Pass 0.2 Phosmet ND ND 0.2 **Pass** Piperonyl Butoxide ND 2.0 0.2 Pass Prallethrin 0.2 ND ND 0.2 Pass Propiconazole ND ND 0.4 0.2 Pass Propoxur ND ND 0.2 0.2 Pass Pyrethrins ND 1.0 1.0 Pass Pyridaben ND ND 0.2 0.2 **Pass** Spinosad ND 0.2 0.2 Pass Spiromesifen ND ND 0.2 0.2 Pass Spirotetramat ND ND 0.2 0.2 Pass Spiroxamine ND ND 0.4 0.2 Pass Tebuconazole ND ND 0.4 0.2 Pass Thiacloprid ND ND 0.2 0.2 Pass Thiamethoxam ND ND 0.2 0.2 Pass 0.2 Trifloxystrobin ND ND 0.2 Pass

Abamectin ND ND 8.5 8.4 Pass Acephate ND ND 8.4 8.2 Pass Acequinocyl ND ND 8.2 Pass Acetamiprid ND ND 8.2 9.2 Pass Aldicarb ND ND 8.4 8.2 Pass Aldicarb ND ND 8.4 8.2 Pass Aldicarb ND ND 8.2 8.2 Pass Aldicarb ND ND 8.2 8.2 Pass Aldicarb ND ND 8.2 8.2 Pass Bifentarate ND ND 8.2 8.2 Pass Bifentarin ND ND 8.2 8.2 Pass Bifenthrin ND ND 8.2 8.2 Pass Carbaryl ND ND 8.2 8.2 Pass Chlorinar ND ND 9.2 8.2 </th <th>Analyte</th> <th>HDS-ZSN-SHW</th> <th>GMG-HHM-BMT</th> <th>Limits</th> <th>LOQ</th> <th>Notes Status</th>	Analyte	HDS-ZSN-SHW	GMG-HHM-BMT	Limits	LOQ	Notes Status
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Ethoprophos ND ND 0.2 0.2 Pass Etofenprox ND ND 0.4 0.2 Pass Etoxazole ND ND 0.2 0.2 Pass Fenoxycarb ND ND 0.2 0.2 Pass Fenpyroximate ND ND 0.4 0.2 Pass Fipronil ND ND 0.4 0.2 Pass Flonicamid ND ND 1.0 0.2 Pass Fludioxonil ND ND 0.4 0.4 Pass Hexythiazox ND ND 1.0 0.2 Pass Imidacloprid ND ND 0.4 0.2 Pass Kresoxim-methyl ND ND 0.4 0.4 Pass	Dichlorvos (DDVP)	ND	ND	1.0	0.2	Pass
Etofenprox ND ND 0.4 0.2 Pass Etoxazole ND ND 0.2 0.2 Pass Fenoxycarb ND ND 0.2 0.2 Pass Fenpyroximate ND ND 0.4 0.2 Pass Fipronil ND ND 0.4 0.2 Pass Flonicamid ND ND 1.0 0.2 Pass Fludioxonil ND ND 0.4 0.4 Pass Hexythiazox ND ND 1.0 0.2 Pass Imazalil ND ND 0.4 0.2 Pass Imidacloprid ND ND 0.4 0.2 Pass Kresoxim-methyl ND ND 0.4 0.4 Pass	Dimethoate	ND	ND	0.2	0.2	Pass
Etoxazole ND ND 0.2 0.2 Pass Fenoxycarb ND ND 0.2 0.2 Pass Fenoxycarb ND ND 0.4 0.2 Pass Fenpyroximate ND ND 0.4 0.2 Pass Fipronil ND ND 0.4 0.2 Pass Flonicamid ND ND 1.0 0.2 Pass Fludioxonil ND ND 0.4 0.4 Pass Hexythiazox ND ND 0.4 0.2 Pass Imazalil ND ND 0.2 Pass Imazalil ND ND 0.2 0.2 Pass Imidacloprid ND ND 0.4 0.2 Pass Kresoxim-methyl ND ND 0.4 0.4 0.2 Pass	Ethoprophos	ND	ND	0.2	0.2	Pass
FenoxycarbNDND0.20.2PassFenpyroximateNDND0.40.2PassFipronilNDND0.40.2PassFlonicamidNDND1.00.2PassFludioxonilNDND0.40.4PassHexythiazoxNDND1.00.2PassImazalilNDND0.20.2PassImidaclopridNDND0.40.2PassKresoxim-methylNDND0.40.4Pass	Etofenprox	ND	ND	0.4	0.2	Pass
Fenpyroximate ND ND 0.4 0.2 Pass Fipronil ND ND 0.4 0.2 Pass Flonicamid ND ND 1.0 0.2 Pass Fludioxonil ND ND 0.4 0.4 Pass Hexythiazox ND ND 1.0 0.2 Pass Imazalil ND ND 0.2 0.2 Pass Imidacloprid ND ND 0.4 0.2 Pass Kresoxim-methyl ND ND 0.4 0.4 Pass	Etoxazole	ND	ND	0.2	0.2	Pass
Fipronil ND ND 0.4 0.2 Pass Flonicamid ND ND 1.0 0.2 Pass Fludioxonil ND ND 0.4 0.4 Pass Hexythiazox ND ND 1.0 0.2 Pass Imazalil ND ND 0.2 0.2 Pass Imidacloprid ND ND 0.4 0.2 Pass Kresoxim-methyl ND ND 0.4 0.4 Pass	Fenoxycarb	ND	ND	0.2	0.2	Pass
Flonicamid ND ND 1.0 0.2 Pass Fludioxonil ND ND 0.4 0.4 Pass Hexythiazox ND ND 1.0 0.2 Pass Imazalil ND ND 0.2 0.2 Pass Imidacloprid ND ND 0.4 0.2 Pass Kresoxim-methyl ND ND 0.4 0.4 Pass	Fenpyroximate	ND	ND	0.4	0.2	Pass
Fludioxonil ND ND 0.4 0.4 Pass Hexythiazox ND ND 1.0 0.2 Pass Imazalil ND ND 0.2 0.2 Pass Imidacloprid ND ND 0.4 0.2 Pass Kresoxim-methyl ND ND 0.4 0.4 Pass	Fipronil	ND	ND	0.4	0.2	Pass
HexythiazoxNDND1.00.2PassImazalilNDND0.20.2PassImidaclopridNDND0.40.2PassKresoxim-methylNDND0.40.4Pass	Flonicamid	ND	ND	1.0	0.2	Pass
ImazalilNDND0.20.2PassImidaclopridNDND0.40.2PassKresoxim-methylNDND0.40.4Pass	Fludioxonil	ND	ND	0.4	0.4	Pass
Imidacloprid ND ND 0.4 0.2 Pass Kresoxim-methyl ND ND 0.4 0.4 Pass	Hexythiazox	ND	ND	1.0	0.2	Pass
Kresoxim-methyl ND ND 0.4 0.4 Pass	Imazalil	ND	ND	0.2	0.2	Pass
	Imidacloprid	ND	ND	0.4	0.2	Pass
Malathion ND ND 0.2 0.2 Pass	Kresoxim-methyl	ND	ND	0.4	0.4	Pass
	Malathion	ND	ND	0.2	0.2	Pass



Danodan Hempworks AG-R1058177IHH 6019 NE MLK JR. BLVD. PORTLAND, OR 97217 (503) 290-4079 Harvest/Process Date: 1/17/2022 Sample Date: 2/8/2022 Analysis Date: 2/10/2022

Report Date: 2/15/2022 Report ID: LS-220215-2

2535 N Ross Ave

(503) 493-2535

Portland, OR 97227

Client Batch ID: CBDA+-01 Metrc Batch ID:

Metrc Sample ID:

Sample Type: Tinctures
Sample Plan:

MF-CN-CN-WZ_20220208_1A

Sample Procedure:

160721_LAB-SOP_SampleCollection-v010

Pesticides

Quality Control Data

Pesticides QC Analysis Date: 2/10/2022 Pesticides Batch ID: PST_021022A_1

Unit: µg/g (ppm)

Method: AOAC 2007.01 & EN 15662

 Analyte
 Blank
 LOQ
 LCS
 LCS Spike
 LCS Rec (%)
 Limits (%)
 Notes
 Analyte
 Blank
 LOQ
 LCS
 LCS Spike
 LCS Rec (%)
 Limits (%)
 Notes

 Methyl Parathion
 ND
 0.002
 0.0617
 0.0500
 123
 50 - 150



Danodan Hempworks AG-R1058177IHH 6019 NE MLK JR. BLVD. PORTLAND, OR 97217 (503) 290-4079 Harvest/Process Date: 1/17/2022 Sample Date: 2/8/2022

Analysis Date: 2/10/2022 Report Date: 2/15/2022 Report ID: LS-220215-2 Client Batch ID: CBDA+-01 Metrc Batch ID:

Metrc Sample ID:

Sample Type: Tinctures Sample Plan:

MF-CN-CN-WZ_20220208_1A

Sample Procedure:

160721_LAB-SOP_SampleCollection-v010

Pesticides
Quality Control Data

Pesticides QC Analysis Date: 2/10/2022 Pesticides Batch ID: PST_021022B_1 Unit: µg/g (ppm)

Method: AOAC 2007.01 & EN 15662

Analyte	Blank	LOQ	LCS	LCS Spike	LCS Rec (%)	Limits (%)	Notes
Abamectin	ND	0.002	0.0599	0.0500	120	50 - 150	
Acephate	ND	0.002	0.0653	0.0500	131	50 - 150	
Acequinocyl	ND	0.002	0.0605	0.0500	121	50 - 150	
Acetamiprid	ND	0.002	0.0658	0.0500	132	50 - 150	
Aldicarb	ND	0.002	0.0731	0.0500	146	50 - 150	
Azoxystrobin	ND	0.002	0.0526	0.0500	105	50 - 150	
Bifenazate	ND	0.002	0.195	0.0500	390	50 - 150	НВ
Bifenthrin	ND	0.002	0.0651	0.0500	130	50 - 150	
Boscalid	ND	0.002	0.0678	0.0500	136	50 - 150	
Carbaryl	ND	0.002	0.0706	0.0500	141	50 - 150	
Carbofuran	ND	0.002	0.0680	0.0500	136	50 - 150	
Chlorantraniliprole	ND	0.002	0.0683	0.0500	137	50 - 150	
Chlorfenapyr	ND	0.002	0.0735	0.0500	147	50 - 150	
Chlorpyrifos	ND	0.002	0.0643	0.0500	129	50 - 150	
Clofentezine	ND	0.002	0.0574	0.0500	115	50 - 150	
Cyfluthrin	ND	0.002	0.0603	0.0500	121	50 - 150	
Cypermethrin	ND	0.002	0.0624	0.0500	125	50 - 150	
Daminozide	ND	0.002	0.0630	0.0500	126	50 - 150	
Diazinon	ND	0.002	0.0735	0.0500	147	50 - 150	
Dichlorvos (DDVP)	ND	0.002	0.0565	0.0500	113	50 - 150	
Dimethoate	ND	0.002	0.0729	0.0500	146	50 - 150	
Ethoprophos	ND	0.002	0.0726	0.0500	145	50 - 150	
Etofenprox	ND	0.002	0.0717	0.0500	143	50 - 150	
Etoxazole	ND	0.002	0.0611	0.0500	122	50 - 150	
Fenoxycarb	ND	0.002	0.0653	0.0500	131	50 - 150	
Fenpyroximate	ND	0.002	0.0737	0.0500	147	50 - 150	
Fipronil	ND	0.002	0.0660	0.0500	132	50 - 150	
Flonicamid	ND	0.002	0.0576	0.0500	115	50 - 150	
Fludioxonil	ND	0.002	0.0624	0.0500	125	50 - 150	
Hexythiazox	ND	0.002	0.0668	0.0500	134	50 - 150	
Imazalil	ND	0.002	0.0722	0.0500	144	50 - 150	
Imidacloprid	ND	0.002	0.0630	0.0500	126	50 - 150	
Kresoxim-methyl	ND	0.002	0.0696	0.0500	139	50 - 150	
Malathion	ND	0.002	0.0713	0.0500	143	50 - 150	

Analyte	Blank	LOQ	LCS	LCS Spike	LCS Rec (%)	Limits (%)	Notes
Metalaxyl	ND	0.002	0.0737	0.0500	147	50 - 150	
Methiocarb	ND	0.002	0.0729	0.0500	146	50 - 150	
Methomyl	ND	0.002	0.0735	0.0500	147	50 - 150	
MGK-264	ND	0.002	0.0648	0.0500	130	50 - 150	
Myclobutanil	ND	0.002	0.0688	0.0500	138	50 - 150	
Naled	ND	0.002	0.0601	0.0500	120	50 - 150	
0xamy1	ND	0.002	0.0711	0.0500	142	50 - 150	
Paclobutrazol	ND	0.002	0.0684	0.0500	137	50 - 150	
Permethrins	ND	0.002	0.0596	0.0500	119	50 - 150	
Phosmet	ND	0.002	0.0680	0.0500	136	50 - 150	
Piperonyl Butoxide	ND	0.002	0.0661	0.0500	132	50 - 150	
Prallethrin	ND	0.002	0.0628	0.0500	126	50 - 150	
Propiconazole	ND	0.002	0.0622	0.0500	124	50 - 150	
Propoxur	ND	0.002	0.0667	0.0500	133	50 - 150	
Pyrethrins	ND	0.002	0.0640	0.0500	128	50 - 150	
Pyridaben	ND	0.002	0.0743	0.0500	149	50 - 150	
Spinosad	ND	0.002	0.0595	0.0500	119	50 - 150	
Spiromesifen	ND	0.002	0.0695	0.0500	139	50 - 150	
Spirotetramat	ND	0.002	0.0737	0.0500	147	50 - 150	
Spiroxamine	ND	0.002	0.0737	0.0500	147	50 - 150	
Tebuconazole	ND	0.002	0.0694	0.0500	139	50 - 150	
Thiacloprid	ND	0.002	0.0701	0.0500	140	50 - 150	
Thiamethoxam	ND	0.002	0.0616	0.0500	123	50 - 150	
Trifloxystrobin	ND	0.002	0.0706	0.0500	141	50 - 150	



Danodan Hempworks AG-R10581771HH 6019 NE MLK JR. BLVD. PORTLAND, OR 97217 (503) 290-4079 Harvest/Process Date: 1/17/2022 Sample Date: 2/8/2022 Analysis Date: 2/10/2022 Report Date: 2/15/2022 Report ID: LS-220215-2

Metrc Sample ID:

Client Batch ID: CBDA+-01

Metrc Batch ID:

Sample Type: Tinctures
Sample Plan:
MF-CN-CN-WZ_20220208_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