



Shot 15-22 Duplicate

Sample ID: G2K0293-02 Matrix: Hemp Products
Test ID: 5020486
Source ID:
Date Sampled: 11/18/22 Date Accepted: 11/18/22

Danodan Hempworks
info@danodan.com

Potency Analysis

Date/Time Extracted: 11/21/22 14:18 Analysis Method/SOP: 215 Batch Identification: 2248012

Cannabinoids	LOQ (%)	mg/g	mg/mL	Cannabinoids Profile
Total THC	0.0010	0.403	0.435	
Total CBD	0.0010	15.3	16.5	
THCA	0.0010	< LOQ	< LOQ	
delta 9-THC	0.0010	0.403	0.435	
delta 8-THC	0.0367	< LOQ	< LOQ	
THCV	0.0286	< LOQ	< LOQ	
THCVA	0.0428	< LOQ	< LOQ	
CBD	0.0010	15.11	16.3	
CBDA	0.0010	0.213	0.230	
CBDV	0.0294	< LOQ	< LOQ	
CBDVA	0.0404	< LOQ	< LOQ	
CBN	0.0264	< LOQ	< LOQ	
CBG	0.0308	0.501	0.541	
CBGA	0.0408	< LOQ	< LOQ	
CBC	0.0386	0.682	0.737	

Unit weight = 1.08 g as provided by client

Total THC = delta 9-THC + (THCA * 0.877)
Total CBD = CBD + (CBDA * 0.877)
Total CBG = CBG + (CBGA * 0.878)
LOQ=Limit of Quantification, the lowest measurable concentration of an analyte.



Eric Wendt
Chief Science Officer - 11/22/2022

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Primary and Duplicate Results at a Glance

	Averaged	Primary	Duplicate	%RPD (10% Action Level)
Total THC:	0.0405 %	0.0406 %	0.0403 %	0.741 % PASS
Total CBD:	1.532 %	1.534 %	1.530 %	0.261 % PASS



**ISO 17025
ACCREDITED
LABORATORY**

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Quality Control Potency

Batch: 2248012 - 215-Products

Blank(2248012-BLK1)							
Analyte	Result	LOQ	Units	%Recovery Limits	Extracted	Analyzed	Notes
THCA	< LOQ	0.0005	%		11/21/22 14:18	11/22/22 04:26	
delta 9-THC	< LOQ	0.0005	%		11/21/22 14:18	11/22/22 04:26	
delta 8-THC	< LOQ	0.0192	%		11/21/22 14:18	11/22/22 04:26	
THCV	< LOQ	0.0150	%		11/21/22 14:18	11/22/22 04:26	
THCVA	< LOQ	0.0224	%		11/21/22 14:18	11/22/22 04:26	
CBD	< LOQ	0.0005	%		11/21/22 14:18	11/22/22 04:26	
CBDA	< LOQ	0.0005	%		11/21/22 14:18	11/22/22 04:26	
CBDV	< LOQ	0.0154	%		11/21/22 14:18	11/22/22 04:26	
CBDVA	< LOQ	0.0212	%		11/21/22 14:18	11/22/22 04:26	
CBN	< LOQ	0.0138	%		11/21/22 14:18	11/22/22 04:26	
CBG	< LOQ	0.0161	%		11/21/22 14:18	11/22/22 04:26	
CBGA	< LOQ	0.0213	%		11/21/22 14:18	11/22/22 04:26	
CBC	< LOQ	0.0202	%		11/21/22 14:18	11/22/22 04:26	

Reference(2248012-SRM1)							
Analyte	% Recovery	LOQ	Units	%Recovery Limits	Extracted	Analyzed	Notes
THCA	105	0.0099	%	90-110	11/21/22 14:18	11/22/22 04:49	
delta 9-THC	107	0.0099	%	90-110	11/21/22 14:18	11/22/22 04:49	
delta 8-THC	109	0.3818	%	90-110	11/21/22 14:18	11/22/22 04:49	
CBD	109	0.0099	%	90-110	11/21/22 14:18	11/22/22 04:49	
CBDA	103	0.0099	%	90-110	11/21/22 14:18	11/22/22 04:49	



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Notes and Definitions

Regulatory Compliance samples were collected onsite at facility according to ORELAP-SOP-001 and ORELAP-SOP-002 and following Sampling Plan FN117. Quality Control samples were tested as received. Results do not include uncertainty of measurements. Available upon request.

ATM	Non-cannabis matrix related interference or suppression of Internal standard
BLI	Baseline Interference - Cannabinoid peak interference in chromatographic baseline affecting QC recovery .
BLK	Analyte detected in method blank, but not associated samples.
BSH	Blank Spike High - Blank Spike recovery above method limit. no detections in samples.
BSL	Blank Spike Low - Blank Spike recovery below lower method limit, analyte chromatography reviewed manually for all samples.
C	Interference due to co-elution
CBD	CBD matrix interference on GC Pest chromatography
CV1	CCV was above acceptance criteria, Non-detect samples are considered acceptable.
CV2	CCV was below acceptance criteria, sample still exceeds regulatory limit.
INF	One or more QC falls outside acceptance criteria. Data entered into LIMS for informational purposes only.
ISH	Internal Standard concentration is above acceptance criteria.
ISL	Internal Standard concentration is below acceptance criteria.
MSH	Matrix Spike High - Matrix Spike recovery above method limits.
MSI	Matrix Spike Interference - Matrix spike source sample contains analyte hit above calibration affecting recovery accuracy in Matrix Spike.
MSL	Matrix Spike Low - Matrix Spike recovery below lower method limit, analyte chromatography reviewed manually for all samples.
TPP	Internal Standard concentration outside control limit due to matrix interference
U	

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Chief Science Officer - 11/22/2022



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



Report Number: 22-013977/D002.R000
Report Date: 11/21/2022
ORELAP#: OR100028
Purchase Order:
Received: 11/14/22 13:38

Customer: Danodan Hemp Works
Product identity: 'Enhanced' Shot 15-22
Client/Metric ID: .
Laboratory ID: 22-013977-0001

Summary

Metals:

Less than LOQ for all analytes.

Microbiology:

Less than LOQ for all analytes.



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Purchase Order:
Received: 11/14/22 13:38

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

Product identity: 'Enhanced' Shot 15-22

Client/Metric ID: .

Sample Date:

Laboratory ID: 22-013977-0001

Evidence of Cooling: No

Temp: 18.4 °C

Relinquished by: Client

Sample Results

Microbiology

Analyte	Result	Limits	Units	LOQ	Batch	Analyzed Method	Status	Notes
Aerobic Plate Count	< LOQ		cfu/g	10	2209802	11/17/22 AOAC 990.12 (Petrifilm) ^P		
E.coli	< LOQ		cfu/g	10	2209798	11/17/22 AOAC 991.14 (Petrifilm) ^P		
Total Coliforms	< LOQ		cfu/g	10	2209798	11/17/22 AOAC 991.14 (Petrifilm) ^P		
Staphylococcus aureus	< LOQ		cfu/g	10	2209804	11/16/22 AOAC 2003.07		
Mold (RAPID Petrifilm)	< LOQ		cfu/g	10	2209801	11/18/22 AOAC 2014.05 (RAPID) ^P		
Yeast (RAPID Petrifilm)	< LOQ		cfu/g	10	2209801	11/18/22 AOAC 2014.05 (RAPID) ^P		
Pseudomonas spp.	< LOQ		cfu/g	10	2209809	11/17/22 ISO 13720:1995		

Allergens

Analyte	Result	Limits	Units	LOQ	Batch	Analyzed Method	Status	Notes
Allergens: Gluten	< LOQ		mg/kg	5.0	2209837	11/15/22 AOAC 2012.01 ^P		

Metals

Analyte	Result	Limits	Units	LOQ	Batch	Analyzed Method	Status	Notes
Arsenic	< LOQ	0.200	mg/kg	0.0839	2209921	11/17/22 AOAC 2013.06 (mod.) ^P	pass	
Cadmium	< LOQ	0.200	mg/kg	0.0839	2209921	11/17/22 AOAC 2013.06 (mod.) ^P	pass	
Lead	< LOQ	0.500	mg/kg	0.0839	2209921	11/17/22 AOAC 2013.06 (mod.) ^P	pass	
Mercury	< LOQ	0.100	mg/kg	0.0419	2209921	11/17/22 AOAC 2013.06 (mod.) ^P	pass	



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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.

^p = ISO/IEC 17025:2017 accredited method.

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



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**Hemp & Cannabis: Usable / Extract / Finished Product
Chain of Custody Record**

Document Control ID: 2832 Revision: 5
Effective: 01/04/2022

ORELAP ID: OR100028 ANAB ISO 17025 ID: AT-1508

Company: Danodan Hempworks Contact: Krista Skucas Address: 6019 NE MLK Jr. Blvd. City: Portland State: OR Zip Code: 97211 <input checked="" type="checkbox"/> Email Results: 360-281-3251 <input type="checkbox"/> Ph: () - <i>Billing Contact (if different)</i> Name: Email: Address: City: State: Zip: Ph: () -			Analysis Requested Gluten (quantitative) Heavy Metals Aerobic Plate Count E Coli Mold Yeast Staph Pseudomonas								PO Number: Project ID: Batch ID: Sampled by: Custom Reporting:		
			Source Material: <input type="checkbox"/> - Ind. Hemp product <input type="checkbox"/> - Rec. Cannabis Reporting Type: <input type="checkbox"/> - Compliance <input type="checkbox"/> - R&D Report to: <input type="checkbox"/> - METRC <input type="checkbox"/> - ODA <input type="checkbox"/> - USDA <input type="checkbox"/> - Other:								Turnaround time (TAT - Business Days): <input type="checkbox"/> - 5BD <input type="checkbox"/> - 3BD* <input type="checkbox"/> - 2BD* <i>*Check for availability</i>		
Lab ID	Client Sample Identification	Sample date	Gluten (quantitative)	Heavy Metals	Aerobic Plate Count	E Coli	Mold	Yeast	Staph	Pseudomonas	Material Type †	Weight (Units)	Comments/Metric ID
	'Enhanced' Shot 15-22	11/11/22	✓	✓	✓	✓	✓	✓	✓	✓	T		Remove current CC on file, customer will call with new one. Per client - AC 11-14
Signature - Relinquished By: <i>K Skucas</i> Date: 11/14/22 Time: 13:38			Signature - Received By: <i>K Skucas</i> Date: 11-14 Time: 13:38			Lab Use Only: <input type="checkbox"/> Shipped Via: _____ or <input checked="" type="checkbox"/> Client drop off Evidence of cooling: <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No - Temp (°C): 18.4 Sample in good condition: <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No Payment: <input type="checkbox"/> Cash <input type="checkbox"/> Check <input type="checkbox"/> CC <input type="checkbox"/> Net: Prelog storage:							

† - Material Type Codes: Plant Material (P) ; Isolate (I) ; Concentrate/Extract (C) ; Tincture/Topical (T) ; Edible (E) ; Beverage (B) ; Vapor Product (V)

Samples submitted to Columbia Laboratories with testing requirements constitute an agreement for services in accordance with the current terms of service associated with this COC. By signing "Relinquished by" you are agreeing to these terms

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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.