JOY ORGANICS

CERTIFICATE OF ANALYSIS

PRODUCT NAME:	Organic Pet CBD Tincture - Natural
PRODUCT STRENGTH:	900mg
TINCTURE BATCH:	250130A
BEST BY DATE:	1/30/27
HEMP EXTRACT LOT:	240807D

Physical Atttributes

Test	Method	Specification	Results
Color	Joy Internal	Golden to Amber	PASS
Odor	Joy Internal	Characteristic - Olive and Hemp	PASS
Appearance	Joy Internal	Golden to Amber oil in brown glass bottle with dropper.	PASS
Primary Package Eval.	Joy Internal	Container clean and free of filth. Container caps tight and shrink bands intact	PASS
Secondary Package Eval.	Joy Internal	Labeling Compliance Checked, Cartons sturdy and clean. Sufficient cushion material exists. Box taped and secure.	PASS

Review of Third-Party Analysis

Panel	Method	Specification	Results*	Pass/Fail
Potency - Total CBD	HPLC-UV DAD	*NLT (product strength) mg / bottle	**1018mg**	PASS
Potency - D9-THC	HPLC-UV DAD	LOQ: 10 ppm (.001-0.3%)	**ND**	PASS
Expanded Pesticide Panel	HPLC-QQQ	LOQ: Complies with CDPHE 6 CCR 1010-21 Industrial Hemp Extract	**ND**	PASS
Microbial Escherichia coli (STEC)	PCR	Complies with CDPHE 6 CCR 1010-21 - LOQ 1 CFU/25 gram	**Absent**	PASS
Microbial Salmonella	PCR	Complies with CDPHE 6 CCR 1010-21 - LOQ 1 CFU/25 gram	**Absent**	PASS
Microbial Yeast and Mold	Culture Plating	Complies with CDPHE 6 CCR 1010-21 - LOQ 10^2 CFU/gram	**Below LOQ**	PASS
Microbial Total Coliforms*	Culture Plating	Complies with CDPHE 6 CCR 1010-21 - LOQ 10^2 CFU/gram	**Below LOQ**	PASS
Microbial Total Aerobic Count*	Culture Plating	Complies with CDPHE 6 CCR 1010-21 - LOQ 10^3 CFU/gram	**Below LOQ**	PASS
Heavy Metals Panel	ICP-MS	Arsenic (As): ≤1.5 ppm Cadmium (Cd): ≤0.5 ppm Lead (Pb): ≤0.5 ppm Mercury (Hg): ≤1.5 ppm	**ND**	PASS
Mycotoxins	ICP-MS	Total Aflatoxins <20 ppb† Afltoxin B1 < 5 ppb Ochratoxin < 5ppb	**ND**	PASS
Residual Solvents	GC-HS-MSD	LOQ: Complies with CDPHE 6 CCR 1010-21 Industrial Hemp Extract	**ND**	PASS

* *Level of Quantitation, † Parts Per Million † Part Per Billion CFU/g=Colony Forming Units per Gram
*Nothing Less Than
10^2=100 CFU
10^3=1,000 CFU

Quality Certified — Name — 2/11/25 Date

2519 S Shields St. #1042, Fort Collins, CO 80526
Tel: (833) 569-7223 www.joyorganics.com

ACS LABORATORY | CANNABIS & HEMP BEYOND COMPLIANCE
721 Cortaro Dr.
Sun City Center, FL 33573
www.acslab.com
DEA No. RA0571996
FL License # CMTL-0003
CLIA No. 10D1094068

900mg Broad Spectrum Tincture- Natural
Sample Matrix: CBD/HEMP Derivative Products (Ingestion)

Certificate of Analysis

Compliance Test

Batch # 250130A
Batch Date: 2024-08-16
Extracted From: N/A

Test Reg State: Colorado

Production Date: 2024-08-16

Order # PRO240816-020001
Order Date: 2024-08-16
Sample # AAFW153

Sampling Date: 2024-08-21
Lab Batch Date: 2024-08-21
Completion Date: 2024-08-27

Initial Gross Weight: 117.600 g

Potency Tested

Pathogenic Passed

Microbiology Petrifilm Passed

Product Image

Potency 10

Specimen Weight: 100.880 mg

Tested

SOP13.001 (LCUV)

Analyte	Dilution (1:n)	LOD (%)	LOQ (%)	Result (mg/g)	(%)
CBD	10.000	5.40E-5	0.0015	34.4900	3.4490
CBC	10.000	1.80E-5	0.0015	1.2000	0.1200
CBG	10.000	2.48E-4	0.0015	0.7700	0.0770
CBN	10.000	1.40E-5	0.0015	0.4300	0.0430
CBDA	10.000	1.00E-5	0.0015	<LOQ	<LOQ
CBDV	10.000	6.50E-5	0.0015	<LOQ	<LOQ
CBGA	10.000	8.00E-5	0.0015	<LOQ	<LOQ
Delta-9 THC	10.000	1.30E-5	0.0015	<LOQ	<LOQ
THCA-A	10.000	3.20E-5	0.0015	<LOQ	<LOQ
THCV	10.000	7.00E-6	0.0015	<LOQ	<LOQ
Total Active CBD	10.000			34.490	3.449
Total Active THC	10.000			<LOQ	<LOQ

Potency Summary

Total Active THC - None Detected	**Total Active CBD** 3.449%
Total CBG 0.077%	**Total CBN** 0.043%
Total Cannabinoids 3.689%	

Aixia Sun Lab Director/Principal Scientist
D.H.Sc., M.Sc., B.Sc., MT (AAB)

Definitions and Abbreviations used in this report: Total Active CBD = CBD + (CBD-A * 0.877), *Total CBDV = CBDV + (CBDVA * 0.867), Total Active THC = THCA-A * 0.877 + Delta 9 THC, Total THCV = THCV + (THCVA * 0.87) , CBG Total = (CBGA * 0.878) + CBG, CBN Total = (CBNA * 0.876) + CBN, Total CBC = CBC + (CBCA * 0.877), Total THC-O-Acetate = Delta 8 THC-O-Acetate + Delta 9 THC-O-Acetate, Total THCP = Delta8-THCP + Delta9-THCP, Total Cannabinoids = Total percentage of cannabinoids within the sample. (mg/ml) = Milligrams per Milliliter, LOQ = Limit of Quantitation, LOD = Limit of Detection, Dilution = Dilution Factor, (ppb) = Parts per Billion, (%) = Percent, (cfu/g) = Colony Forming Unit per Gram, (µg/g) = Microgram per Gram, (ppm) = Parts per Million, (ppm) = (µg/g), (aw) = Water Activity, (mg/Kg) = Milligram per Kilogram. ACS uses simple acceptance criteria. Passed – Analyte/microbe is not detected or is at the level below the action limit per CO rule 6 CCR 1010-21. Failed – Analyte/microbe is at the level that equal or above the action limit per CO rule 6 CCR 1010-21 Sample not received via laboratory sampling.

QA By: 1057 on 2024-08-27 19:14:20 V1

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Formerly Botanacor Labs

CERTIFICATE OF ANALYSIS

900mg Broad Spectrum Tincture- Natural

Batch ID or Lot Number:	Test, Test ID and Methods:	Matrix:	Page 1 of 5
250130A	Various	Concentrate	
Reported:	**Started:**	**Received:**	
24Jun2024	21Jun2024	20Jun2024	

Residual Solvents - Colorado Compliance

Test ID: T000284664
Methods: TM04 (GC-MS): Residual Solvents

	Dynamic Range (ppm)	**Result** (ppm)	**Notes**
Propane	78 - 1566	ND	
Butanes (Isobutane, n-Butane)	159 - 3188	ND	
Methanol	62 - 1234	ND	
Pentane	84 - 1683	ND	
Ethanol	93 - 1870	ND	
Acetone	98 - 1954	ND	
Isopropyl Alcohol	104 - 2082	ND	
Hexane	6 - 120	ND	
Ethyl Acetate	100 - 2008	ND	
Benzene	0.2 - 4.1	ND	
Heptanes	93 - 1863	ND	
Toluene	18 - 364	ND	
Xylenes (m,p,o-Xylenes)	131 - 2618	ND	

Final Approval

Karen Winternheimer
24Jun2024
08:41:00 AM MDT
PREPARED BY / DATE

Sam Smith
24Jun2024
09:00:00 AM MDT
APPROVED BY / DATE

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CERTIFICATE OF ANALYSIS

900mg Broad Spectrum Tincture- Natural

Batch ID or Lot Number:	Test, Test ID and Methods:	Matrix:	
250130A	Various	Concentrate	
Reported:	Started:	Received:	
24Jun2024	21Jun2024	20Jun2024	

Pesticides

Test ID: T000284661
Methods: TM17

(LC-QQ LC MS/MS)	**Dynamic Range** (ppb)	**Result** (ppb)		**Dynamic Range** (ppb)	**Result** (ppb)
Abamectin	492 - 2782	ND	Malathion	289 - 2740	ND
Acephate	39 - 2737	ND	Metalaxyl	43 - 2742	ND
Acetamiprid	39 - 2709	ND	Methiocarb	41 - 2732	ND
Azoxystrobin	45 - 2727	ND	Methomyl	42 - 2761	ND
Bifenazate	45 - 2708	ND	MGK 264 1	65 - 1532	ND
Boscalid	39 - 2717	ND	MGK 264 2	97 - 1089	ND
Carbaryl	38 - 2731	ND	Myclobutanil	40 - 2704	ND
Carbofuran	42 - 2702	ND	Naled	43 - 2682	ND
Chlorantraniliprole	38 - 2717	ND	Oxamyl	42 - 2764	ND
Chlorpyrifos	25 - 2744	ND	Paclobutrazol	41 - 2702	ND
Clofentezine	278 - 2710	ND	Permethrin	263 - 2746	ND
Diazinon	278 - 2746	ND	Phosmet	43 - 2608	ND
Dichlorvos	264 - 2725	ND	Prophos	277 - 2740	ND
Dimethoate	41 - 2726	ND	Propoxur	42 - 2701	ND
E-Fenpyroximate	260 - 2843	ND	Pyridaben	265 - 2838	ND
Etofenprox	36 - 2769	ND	Spinosad A	30 - 2070	ND
Etoxazole	254 - 2755	ND	Spinosad D	58 - 687	ND
Fenoxycarb	42 - 2737	ND	Spiromesifen	246 - 2837	ND
Fipronil	37 - 2764	ND	Spirotetramat	294 - 2758	ND
Flonicamid	45 - 2733	ND	Spiroxamine 1	15 - 1020	ND
Fludioxonil	268 - 2689	ND	Spiroxamine 2	24 - 1610	ND
Hexythiazox	34 - 2828	ND	Tebuconazole	303 - 2724	ND
Imazalil	284 - 2776	ND	Thiacloprid	43 - 2760	ND
Imidacloprid	43 - 2744	ND	Thiamethoxam	37 - 2739	ND
Kresoxim-methyl	46 - 2757	ND	Trifloxystrobin	42 - 2725	ND

Final Approval

Samantha Smith
Sam Smith
27Jun2024
09:09:00 AM MDT
PREPARED BY / DATE

K Winternheimer
Karen Winternheimer
27Jun2024
09:11:00 AM MDT
APPROVED BY / DATE

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CERTIFICATE OF ANALYSIS

900mg Broad Spectrum Tincture- Natural

Batch ID or Lot Number:	Test, Test ID and Methods:	Matrix:	Page 5 of 5
250130A	Various	Concentrate	
Reported:	**Started:**	**Received:**	
24Jun2024	21Jun2024	20Jun2024	

Mycotoxins - Colorado Compliance

Test ID: T000284665
Methods: TM18 (UHPLC-QQQ LCMS/MS): Mycotoxins

	Dynamic Range (ppb)	**Result** (ppb)	**Notes**
Ochratoxin A	1.09 - 127.38	ND	N/A
Aflatoxin B1	0.99 - 32.66	ND	
Aflatoxin B2	0.99 - 32.66	ND	
Aflatoxin G1	1.05 - 32.28	ND	
Aflatoxin G2	1.09 - 32.63	ND	
Total Aflatoxins (B1, B2, G1, and G2)		ND	

Final Approval

Sam Smith
28Jun2024
11:47:00 AM MDT
PREPARED BY / DATE

Karen Winternheimer
28Jun2024
11:49:00 AM MDT
APPROVED BY / DATE

https://results.botanacor.com/api/v1/coas/uuid/73dfe90d-bdbe-4bcf-abaa-8a65766a6b41

Definitions
LOD = Limit of Detection, ULOQ = Upper Limit of Quantitation, LLOQ = Lower Limit of Quantitation, PPB = Parts per Billion, % = % (w/w) = Percent (weight of analyte / weight of product). ND = None Detected (defined by dynamic range of the method). Total Potential Delta 9-THC or CBD is calculated to take into account the loss of a carboxyl group during decarboxylation step, using the following formulas: Total Potential Delta 9-THC = Delta 9-THC + (Delta 9-THCa *(0.877)) and Total CBD = CBD + (CBDa *(0.877)). Fail equates to a concentration level of Delta 9-THC, on a dry weight basis, higher than 0.3 percent + or – the measurement uncertainty. Total Potential THC is calculated using the following formulas to take into account the loss of a carboxyl group during decarboxylation step. Total THC = THC + (THCa *(0.877)). ALOQ = Above Limit Of Quantitation (defined by dynamic range of the method), CFU/g = Colony Forming Units per Gram. Values recorded in scientific notation, a common microbial practice of expressing numbers that are too large to be conveniently written in decimal form. Examples: 10^2 = 100 CFU, 10^3 = 1,000 CFU, 10^4 = 10,000 CFU, 10^5 = 100,000 CFU.

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botanacor

CERTIFICATE OF ANALYSIS

900mg Broad Spectrum Tincture- Natural

Batch ID or Lot Number:	Test:	Reported:
250130A	**Metals**	**6/26/24**

Matrix:	Test ID:	Started:	USDA License:
Concentrate Co	T000284663	6/25/24	N/A

Status:	Method:	Received:	Sampler ID:
Active	TM19 (ICP-MS): Heavy Metals	06/20/2024 @ 10:04 AM	N/A

HEAVY METALS DETERMINATION

Compound	Dynamic Range (ppm)	Result (ppm)
Arsenic	0.047 - 4.66	ND
Cadmium	0.046 - 4.56	ND
Mercury	0.048 - 4.82	ND
Lead	0.047 - 4.70	ND

Notes

Karen Winternheimer
26-Jun-24
1:48 PM
PREPARED BY / DATE

Sam Smith
26-Jun-24
2:00 PM
APPROVED BY / DATE

Definitions

ND = None Detected (Defined by Dynamic Range of the method)

Testing results are based solely upon the sample submitted to Botanacor Laboratories, LLC, in the condition it was received. Botanacor Laboratories, LLC warrants that all analytical work is conducted professionally in accordance with all applicable standard laboratory practices using validated methods. Data was generated using an unbroken chain of comparison to NIST traceable Reference Standards and Certified Reference Materials. This report may not be reproduced, except in full, without the written approval of Botanacor Laboratories, LLC.

Certificate #4329.02

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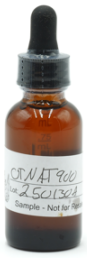
Hemp Quality Assurance Testing

CERTIFICATE OF ANALYSIS

DATE ISSUED 02/08/2025

SAMPLE DETAILS

SAMPLE NAME: Organic 900mg CBD Tincture- Natural Infused, Liquid Edible



SAMPLE DETAIL

Batch Number: 250130A
Sample ID: 250204L001

Date Collected: 02/04/2025
Date Received: 02/04/2025
Batch Size:
Sample Size: 1.0 units
Unit Mass: 30 milliliters per Unit
Serving Size: 1 milliliters per Serving

Scan QR code to verify authenticity of results.

SAFETY ANALYSIS - SUMMARY

Microbiology (PCR): PASS **Microbiology (Plating):** ND

For quality assurance purposes. Not a Regulatory Hemp Lab Test Report. These results relate only to the sample included on this report. This report shall not be reproduced, except in full, without written approval of the laboratory.

Sample Certification: California Code of Regulations Title 4 Division 19. Department of Cannabis Control Business and Professions Code. Reference: Sections 26100, 26104 and 26110, Business and Professions Code.

Decision Rule: Statements of conformity (e.g. Pass/Fail) to specifications are made in this report without taking measurement uncertainty into account. Where statements of conformity are made in this report, the following decision rules are applied: PASS - Results within limits/specifications, FAIL - Results exceed limits/specifications.

References: limit of detection (LOD), limit of quantification (LOQ), not detected (ND), not tested (NT), µg/g = ppm, µg/kg = ppb, too numerous to count >250 cfu/plate (TNTC), colony-forming unit (cfu)

LQC verified by: Samantha LeBeau
Job Title: Laboratory Assistant
Date: 02/08/2025

Approved by: Josh Wurzer
Job Title: Chief Compliance Officer
Date: 02/08/2025

Microbiology Analysis

PCR AND PLATING

Analysis conducted by polymerase chain reaction (PCR) and fluorescence detection of microbiological contaminants.

Method: QSP 1221 - Analysis of Microbiological Contaminants

MICROBIOLOGY TEST RESULTS (PCR) - 02/08/2025 PASS

COMPOUND	ACTION LIMIT	RESULT	RESULT
Salmonella spp.	*Not Detected in 1g*	ND	PASS
Shiga toxin-producing *Escherichia coli*	*Not Detected in 1g*	ND	PASS

Analysis conducted by 3M™ Petrifilm™ and plate counts of microbiological contaminants.

Method: QSP 6794 - Plating with 3M™ Petrifilm™

MICROBIOLOGY TEST RESULTS (PLATING) - 02/08/2025 **ND**

COMPOUND	RESULT (cfu/g)
Coliforms	ND
Total Aerobic Bacteria	ND
Total Yeast and Mold	ND

NOTES
Sample unit mass provided by client.