

# **Regulatory Compliance Testing**

# **CERTIFICATE OF ANALYSIS**

DATE ISSUED 10/13/2024 | OVERALL BATCH RESULT: PASS

SAMPLE NAME: Deep Calm Roll-On (30ml)

Infused, Topical

**CULTIVATOR / MANUFACTURER** 

Business Name: Proof Operations,

License Number: CDPH-10001196 Address: 3381 MCMAUDE PL, SUITE B, C

SANTA ROSA, CA 95407-8145

SAMPLE DETAIL

Batch Number: R0101-092324 Sample ID: 241011N008

Source Metrc UID:

1A40603000002BD000000672

**DISTRIBUTOR** 

Business Name: PROOF OPERATIONS,

INC.

License Number: C11-0000046-LIC

Address: 3381 MCMAUDE PL, SUITE B, C

SANTA ROSA, CA 95407-8145

Date Collected: 10/11/2024 Date Received: 10/12/2024 Batch Size: 754.0 units Sample Size: 8.0 units

Unit Mass: 30 milliliters per Unit

Serving Size:

Sampling Method: QSP 1265 - Sampling of Cannabis and Product Batches









Scan QR code to verify authenticity of results.

## CANNABINOID ANALYSIS - SUMMARY PASS

Total Cannabinoids: 1981.200 mg/unit

Total THC: 905.940 mg/unit

Total CBD: 979.590 mg/unit

 $\label{eq:Sum of Cannabinoids: 1981.200 mg/unit} Sum of Cannabinoids = \Delta^9 - THC + THCa + CBD + CBDa + CBG + CBGa + THCV + THCVa + CBC + CBCa + CBDV + CBDVa + \Delta^8 - THC + CBL + CBN + CBCA + CBDV + CBDVa + \Delta^8 - THC + CBL + CBN + CBCA + CBDVA + \Delta^8 - THC + CBL + CBN + CBCA + CBCA$ Total Cannabinoids =  $(\Delta^9$ -THC+0.877\*THCa+ $\Delta^8$ -THC) + (CBD+0.877\*CBDa) + (CBG+0.877\*CBGa) + (THCV+0.877\*THCVa) +

(CBC+0.877\*CBCa) + (CBDV+0.877\*CBDVa) + CBL + CBN

Total THC/CBD is calculated using the following formulas to take into account the loss of a carboxyl group during the decarboxylation step:

Total THC =  $\Delta^9$ -THC + (THCa (0.877)) +  $\Delta^8$ -THC

Total CBD = CBD + (CBDa (0.877))

Density: 0.9231 g/mL

#### **SAFETY ANALYSIS - SUMMARY**

 $\Delta^9$ -THC per Unit:  $\bigcirc$  PASS

Residual Solvents: PASS

Foreign Material: PASS

Pesticides: PASS

Heavy Metals: PASS

Water Activity: NT

Mycotoxins: PASS

Microbiology: OPASS

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)

AlLQC samples were performed and met the prescribed acceptance criteria in 4 CCR section 15730, as attested by: Yasmin Kakkar

Job Title: Senior Laboratory Analyst Date: 10/13/2024

Approved by: Josh Wurzer Title: Chief Compliance Officer Date: 10/13/2024



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## CANNABINOID TEST RESULTS - 10/13/2024 PASS

Tested by high-performance liquid chromatography with diode-array detection (HPLC-DAD). Method: QSP 1157 - Analysis of Cannabinoids by HPLC-DAD

TOTAL CANNABINOIDS: 1981.200 mg/unit TOTAL CBG: 51.150 mg/unit

Total Cannabinoids (Total THC) + (Total CBD) + (Total CBG) + (Total THCV) + (Total CBC) + (Total CBDV) + CBL + CBN

TOTAL THC: 905.940 mg/unit Total THC (Δ9-THC+0.877\*THCa+Δ8-THC)

TOTAL CBD: 979.590 mg/unit

Total CBD (CBD+0.877\*CBDa)

Total CBG (CBG+0.877\*CBGa)

TOTAL THCV: 9.180 mg/unit Total THCV (THCV+0.877\*THCVa)

TOTAL CBC: 17.220 mg/unit Total CBC (CBC+0.877\*CBCa)

TOTAL CBDV: 3.900 mg/unit Total CBDV (CBDV+0.877\*CBDVa)

COMPOUND	LOD/LOQ (mg/mL)	MEASUREMENT UNCERTAINTY (mg/mL)	RESULT (mg/mL)	RESULT (%)
CBD	0.004 / 0.011	±1.2180	32.653	3.5373
∆ <sup>9</sup> -THC	0.002/0.014	±1.6579	30.198	3.2714
CBG	0.002 / 0.006	±0.0827	1.705	0.1847
СВС	0.003 / 0.010	±0.0185	0.574	0.0622
CBN	0.001 / 0.007	±0.0136	0.474	0.0513
THCV	0.002/0.012	±0.0150	0.306	0.0331
CBDV	0.002/0.012	±0.0053	0.130	0.0141
$\Delta^8$ -THC	0.01 / 0.02	N/A	ND	ND
THCa	0.001 / 0.005	N/A	ND	ND
THCVa	0.002/0.019	N/A	ND	ND
CBDa	0.001 / 0.026	N/A	ND	ND
CBDVa	0.001 / 0.018	N/A	ND	ND
CBGa	0.002 / 0.007	N/A	ND	ND
CBL	0.003 / 0.010	N/A	ND	ND
CBCa	0.001 / 0.015	N/A	ND	ND
SUM OF CAN	NABINOIDS		66.040 mg/mL	7.1542%

## UNIT MASS: 30 milliliters per Unit

$\Delta^9$ -THC per Unit	1100 per-package limit	905.940 mg/unit	PASS
Total THC per Unit		905.940 mg/unit	
CBD per Unit		979.590 mg/unit	
Total CBD per Unit		979.590 mg/unit	
Sum of Cannabinoids per Unit		1981.200 mg/unit	
Total Cannabinoids per Unit		1981.200 mg/unit	

## **DENSITY TEST RESULT**

0.9231 g/mL Tested 10/13/2024 Method: QSP 7870 -Sample Preparation

#### CATEGORY 1 PESTICIDE TEST RESULTS - 10/13/2024 PASS

Pesticide and plant growth regulator analysis utilizing high-performance liquid chromatography-mass spectrometry (HPLC-MS) or gas chromatography-mass spectrometry (GC-MS). \*GC-MS utilized where indicated. Method: QSP 1212 - Analysis of Pesticides and Mycotoxins by LC-MS or QSP 1213 - Analysis of Pesticides by GC-MS

COMPOUND	LOD/LOQ (μg/g)	ACTION LIMIT (µg/g)	MEASUREMENT UNCERTAINTY (μg/g)	RESULT (µg/g)	RESULT
Aldicarb	0.03 / 0.08	≥LOD	N/A	ND	PASS
Carbofuran	0.02 / 0.05	≥ LOD	N/A	ND	PASS
Chlordane*	0.03 / 0.08	≥ LOD	N/A	ND	PASS
Chlorfenapyr*	0.03 / 0.10	≥ LOD	N/A	ND	PASS
Chlorpyrifos	0.02 / 0.06	≥ LOD	N/A	ND	PASS
Coumaphos	0.02 / 0.07	≥ LOD	N/A	ND	PASS
Daminozide	0.02 / 0.07	≥ LOD	N/A	ND	PASS
Dichlorvos (DDVP)	0.03 / 0.09	≥LOD	N/A	ND	PASS
Dimethoate	0.03 / 0.08	≥ LOD	N/A	ND	PASS
Ethoprophos	0.03 / 0.10	≥ LOD	N/A	ND	PASS
Etofenprox	0.02 / 0.06	≥ LOD	N/A	ND	PASS
Fenoxycarb	0.03 / 0.08	≥ LOD	N/A	ND	PASS
Fipronil	0.03 / 0.08	≥LOD	N/A	ND	PASS
Imazalil	0.02 / 0.06	≥ LOD	N/A	ND	PASS
Methiocarb	0.02 / 0.07	≥ LOD	N/A	ND	PASS
Parathion-methyl	0.03 / 0.10	≥ LOD	N/A	ND	PASS
Mevinphos	0.03 / 0.09	≥ LOD	N/A	ND	PASS
Paclobutrazol	0.02 / 0.05	≥ LOD	N/A	ND	PASS
Propoxur	0.03 / 0.09	≥ LOD	N/A	ND	PASS
Spiroxamine	0.03 / 0.08	≥ LOD	N/A	ND	PASS
Thiacloprid	0.03 / 0.10	≥LOD	N/A	ND	PASS

#### CATEGORY 2 PESTICIDE TEST RESULTS - 10/13/2024 PASS

COMPOUND	LOD/LOQ (µg/g)	ACTION LIMIT (µg/g)	MEASUREMENT UNCERTAINTY (μg/g)	RESULT (μg/g)	RESULT
Abamectin	0.03 / 0.10	0.3	N/A	ND	PASS
Acephate	0.02 / 0.07	5	N/A	ND	PASS
Acequinocyl	0.02 / 0.07	4	N/A	ND	PASS
Acetamiprid	0.02 / 0.05	5	N/A	ND	PASS
Azoxystrobin	0.02 / 0.07	40	N/A	ND	PASS
Bifenazate	0.01 / 0.04	5	N/A	ND	PASS
Bifenthrin	0.02 / 0.05	0.5	N/A	ND	PASS
Boscalid	0.03 / 0.09	10	N/A	ND	PASS
Captan	0.19/0.57	5	N/A	ND	PASS
Carbaryl	0.02 / 0.06	0.5	N/A	ND	PASS
Chlorantranilip- role	0.04 / 0.12	40	N/A	ND	PASS
Clofentezine	0.03 / 0.09	0.5	N/A	ND	PASS

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#### CATEGORY 2 PESTICIDE TEST RESULTS - 10/13/2024 continued

COMPOUND	LOD/LOQ (µg/g)	ACTION LIMIT (µg/g)	MEASUREMENT UNCERTAINTY (μg/g)	RESULT (µg/g)	RESULT
Cyfluthrin	0.12/0.38	1	N/A	ND	PASS
Cypermethrin	0.11/0.32	1	N/A	ND	PASS
Diazinon	0.02/0.05	0.2	N/A	ND	PASS
Dimethomorph	0.03/0.09	20	N/A	ND	PASS
Etoxazole	0.02/0.06	1.5	N/A	ND	PASS
Fenhexamid	0.03/0.09	10	N/A	ND	PASS
Fenpyroximate	0.02 / 0.06	2	N/A	ND	PASS
Flonicamid	0.03 / 0.10	2	N/A	ND	PASS
Fludioxonil	0.03 / 0.10	30	N/A	ND	PASS
Hexythiazox	0.02 / 0.07	2	N/A	ND	PASS
Imidacloprid	0.04/0.11	3	N/A	ND	PASS
Kresoxim-methyl	0.02 / 0.07	1	N/A	ND	PASS
Malathion	0.03 / 0.09	5	N/A	ND	PASS
Metalaxyl	0.02/0.07	15	N/A	ND	PASS
Methomyl	0.03 / 0.10	0.1	N/A	ND	PASS
Myclobutanil	0.03/0.09	9	N/A	ND	PASS
Naled	0.02 / 0.07	0.5	N/A	ND	PASS
Oxamyl	0.04/0.11	0.2	N/A	ND	PASS
Pentachloronitro- benzene (Quintozene)*	0.03 / 0.09	0.2	N/A	ND	PASS
Permethrin	0.04 / 0.12	20	N/A	ND	PASS
Phosmet	0.03 / 0.10	0.2	N/A	ND	PASS
Piperonyl Butoxide	0.02 / 0.07	8	N/A	ND	PASS
Prallethrin	0.03 / 0.08	0.4	N/A	ND	PASS
Propiconazole	0.02 / 0.07	20	N/A	ND	PASS
Pyrethrins	0.04 / 0.12	1	N/A	ND	PASS
Pyridaben	0.02 / 0.07	3	N/A	ND	PASS
Spinetoram	0.02 / 0.07	3	N/A	ND	PASS
Spinosad	0.02 / 0.07	3	N/A	ND	PASS
Spiromesifen	0.02 / 0.05	12	N/A	ND	PASS
Spirotetramat	0.02 / 0.06	13	N/A	ND	PASS
Tebuconazole	0.02 / 0.07	2	N/A	ND	PASS
Thiamethoxam	0.03/0.10	4.5	N/A	ND	PASS
Trifloxystrobin	0.03 / 0.08	30	N/A	ND	PASS

### MYCOTOXIN TEST RESULTS - 10/13/2024 PASS

Mycotoxin analysis utilizing high-performance liquid chromatography-mass  $spectrometry \ (HPLC-MS). \ \textbf{Method:} \ QSP \ 1212 - Analysis \ of \ Pesticides \ and \ Mycotoxins \ by \ LC-MS$ 

COMPOUND	LOD/LOQ (µg/kg)	ACTION LIMIT (µg/kg)	MEASUREMENT UNCERTAINTY (μg/kg)	RESULT (µg/kg)	RESULT
Aflatoxin B1	2.0 / 6.0		N/A	ND	
Aflatoxin B2	1.8 / 5.6		N/A	ND	
Aflatoxin G1	1.0/3.1		N/A	ND	
Aflatoxin G2	1.2 / 3.5		N/A	ND	
Total Aflatoxin		20		ND	PASS
Ochratoxin A	6.3 / 19.2	20	N/A	ND	PASS

### CATEGORY 1 RESIDUAL SOLVENTS TEST RESULTS - 10/13/2024 PASS



Residual Solvent analysis utilizing gas chromatography-mass spectrometry (GC-MS). Method: QSP 1204 - Analysis of Residual Solvents by GC-MS

COMPOUND	LOD/LOQ (µg/g)	ACTION LIMIT (µg/g)	MEASUREMENT UNCERTAINTY (μg/g)	RESULT (µg/g)	RESULT
1,2-Dichloroethane	0.05 / 0.1	1	N/A	ND	PASS
Benzene	0.03 / 0.09	1	N/A	ND	PASS
Chloroform	0.1 / 0.2	1	N/A	ND	PASS
Ethylene Oxide	0.3 / 0.8	1	N/A	ND	PASS
Dichloromethane (Methylene Chloride)	0.3/0.9	1	N/A	ND	PASS
Trichloroethylene	0.1/0.3	1	N/A	ND	PASS

### CATEGORY 2 RESIDUAL SOLVENTS TEST RESULTS - 10/13/2024 PASS



COMPOUND	LOD/LOQ (µg/g)	ACTION LIMIT (µg/g)	MEASUREMENT UNCERTAINTY (μg/g)	RESULT (μg/g)	RESULT
Acetone	20/50	5000	N/A	ND	PASS
Acetonitrile	2/7	410	N/A	ND	PASS
n-Butane	10/50	5000	N/A	ND	PASS
Ethanol	20/50		N/A	ND	
Ethyl Acetate	20/60	5000	N/A	ND	PASS
Ethyl Ether	20/50	5000	N/A	ND	PASS
n-Heptane	20/60	5000	N/A	ND	PASS
n-Hexane	2/5	290	N/A	ND	PASS
2-Propanol (Isopropyl Alcohol)	10/40		N/A	ND	
Methanol	50/200	3000	N/A	ND	PASS
n-Pentane	20/50	5000	N/A	ND	PASS
Propane	10/20	5000	N/A	ND	PASS
Toluene	7/21	890	N/A	ND	PASS
Total Xylenes	50 / 160	2170	N/A	ND	PASS





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PASS

HEAVY METALS TEST RESULTS - 10/13/2024 PASS

Heavy metal analysis utilizing inductively coupled plasma-mass spectrometry (ICP-MS). **Method:** QSP 1160 - Analysis of Heavy Metals by ICP-MS

COMPOUND	LOD/LOQ (µg/g)	ACTION LIMIT (µg/g)	MEASUREMENT UNCERTAINTY (μg/g)	RESULT (μg/g)	RESULT
Arsenic	0.02 / 0.1	1.5	N/A	ND	PASS
Cadmium	0.02 / 0.05	0.5	N/A	ND	PASS
Lead	0.04 / 0.1	0.5	N/A	ND	PASS
Mercury	0.002 / 0.01	3	N/A	ND	PASS

## MICROBIOLOGY TEST RESULTS - 10/13/2024 PASS

Analysis conducted by polymerase chain reaction (PCR) and fluorescence detection of microbiological contaminants. **Method:** QSP 1221 - Analysis of Microbiological Contaminants

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

# FOREIGN MATERIAL TEST RESULTS - 10/12/2024 PASS

Visual analysis includes, but is not limited to, sand, soil, cinders, dirt, mold, hair, insect fragments, and mammalian excreta. **Method:** QSP 1226 - Analysis of Foreign Material in Cannabis and Cannabis Products

COMPOUND	ACTION LIMIT	RESULT	RESULT
Total Sample Area Covered by Sand, Soil, Cinders, or Dirt	>25%	None	PASS
Total Sample Area Covered by Mold	>25%	None	PASS
Total Sample Area Covered by an Imbedded Foreign Material	>25%	None	PASS
Insect Fragment Count	> 1 per 3 grams	0.0	PASS
Hair Count	> 1 per 3 grams	0.0	PASS
Mammalian Excreta Count	> 1 per 3 grams	0.0	PASS