

Certificate of Analysis

Produced: Sep 19, 2025

Sample: P&B National: Balm: 15ml 3:1 Extra Strength (Topical) • Client: Papa & Barkley CBD • Batch: Pass



Batch No.: 24067S1-2
Matrix: Topical
Sample ID: ICC-250916-01-003
Collected on: Sep 17, 2025
Received on: Sep 17, 2025
Sample Size:
Package Size: 15.37 g

Batch Result: Pass

Potency	Tested
Microbial	Pass
Mycotoxins	Pass
Pesticides	Pass
Foreign	Pass

Cannabinoid Overview

Total THC:	50.9 mg/pkg
Total CBD:	141 mg/pkg
Total Cannabinoids:	207 mg/pkg
Sum of Cannabinoids:	207 mg/pkg

POT-INST-005: POT-INST-005: Expanded Potency • Sep 18, 2025

Analyte	Amt (mg/pkg)	Amt (%)	Amt (mg/g)	LOD/LOQ (mg/g)	Pass/Fail	Analyte	Amt (mg/pkg)	Amt (%)	Amt (mg/g)	LOD/LOQ (mg/g)	Pass/Fail
CBC	8.64	0.0562	0.562	0.0276/0.0827	N/A	CBN	1.72	0.0112	0.112	0.00952/0.0418	N/A
CBCA		ND	ND	0.0387/0.116	N/A	CBNA		ND	ND	0.0142/0.0426	N/A
CBCV		ND	ND	0.0120/0.0418	N/A	CBT		ND	ND	0.0120/0.0418	N/A
CBD	141	0.916	9.16	0.00843/0.0418	N/A	Δ ⁸ -THC		ND	ND	0.00676/0.0418	N/A
CBDA		ND	ND	0.0202/0.0605	N/A	Δ ⁹ -THC	50.9	0.331	3.31	0.0112/0.0418	N/A
CBDV	2.00	0.0130	0.130	0.00669/0.0418	N/A	THCA		ND	ND	0.0153/0.0460	N/A
CBDVA		ND	ND	0.0219/0.0657	N/A	THCV		ND	ND	0.00516/0.0418	N/A
CBG	2.81	0.0183	0.183	0.00952/0.0418	N/A	THCVA		ND	ND	0.0167/0.0501	N/A
CBGA		ND	ND	0.0149/0.0446	N/A	Total THC**	50.9	0.331	3.31		N/A
CBL		ND	ND	0.00658/0.0418	N/A	Total CBD**	141	0.916	9.16		N/A
CBLA		ND	ND	0.0913/0.274	N/A	Total Cannabinoids**	207	1.35	13.5		N/A

** Total Cannabinoids = Neutral Cannabinoids + (Acidic Cannabinoids * 0.877)
** Total THC = Delta-10-THC + Delta-8-THC + (Delta-8-THCA x 0.877) + Delta-9-THC + THC-O-acetate + (THCA x 0.877)
** Total CBD = CBD + (CBDA x 0.877)
NR= Not Reported, ND= Not Detected, *Reported by Dry Mass*; *analytical instrumentation used Cannabinoids: UHPLC-DAD, Moisture: Mass by Drying, Water Activity: Water Activity Meter, Foreign: Microscope*
*Density tested at a temperature range between 19-24 °C, *Water Activity tested at a humidity range between 0-90% Relative Humidity. All OA samples are sampled by the client, All California State Compliant samples sampled using SAMPL-SOP-001.

MICRO-INST-001, MICRO-PREP-001: MICRO-INST-001, MICRO-PREP-001: PCR-Microbial (noninhalable) • Sep 19, 2025

Analyte	Limit	Amt	Pass/Fail	Analyte	Limit	Amt	Pass/Fail
Salmonella spp.	Any amt in 1 gram	ND	Pass	Shiga toxin-producing E. coli	Any amt in 1 gram	ND	Pass
Compliance requirements for this test are taken from CA Cannabis/Hemp (Based on Submission Type) regulations.							

PESTMYCO-LC-INST-004, PESTMYCO-LC-PREP-001: PESTMYCO-LC-INST-004, PESTMYCO-LC-PREP-001: Mycotoxin Analysis by LC-MS/MS • Sep 19, 2025

Analyte	Limit (µg/kg)	Amt (µg/kg)	LOD/LOQ (µg/kg)	Pass/Fail	Analyte	Limit (µg/kg)	Amt (µg/kg)	LOD/LOQ (µg/kg)	Pass/Fail
Aflatoxin B1		ND	1.94/5.88	N/A	Aflatoxin G2		ND	1.54/5.00	N/A
Aflatoxin B2		ND	2.65/8.04	N/A	Aflatoxins	20	ND		Pass
Aflatoxin G1		ND	3.91/11.9	N/A	Ochratoxin A	20	ND	4.78/14.5	Pass

Compliance requirements for this test are taken from CA Cannabis/Hemp (Based on Submission Type) regulations.

PEST-GC-INST-003, PEST-GC-PREP-001: PEST-GC-INST-003, PEST-GC-PREP-001: Colorado Pesticides by GC-MS/MS • Sep 19, 2025

Analyte	Limit (µg/g)	Amt (µg/g)	LOD/LOQ (µg/g)	Pass/Fail	Analyte	Limit (µg/g)	Amt (µg/g)	LOD/LOQ (µg/g)	Pass/Fail
α-Endosulfan	0.353	ND	0.118/0.353	Pass	Iprodione	0.475	ND	0.158/0.475	Pass
β-Endosulfan	0.239	ND	0.0797/0.239	Pass	Kinoprene	0.221	ND	0.0738/0.221	Pass
Chlorfenapyr	0.0244	ND	0.00814/0.0244	Pass	Methyl parathion	0.0257	ND	0.00857/0.0257	Pass
Cyfluthrin	0.0384	ND	0.0128/0.0384	Pass	MGK-264	Any amt	ND		Pass
Cypermethrin	0.0525	ND	0.0175/0.0525	Pass	MGK-264 I		ND	0.00152/0.00457	N/A
Endosulfan sulfate	0.0257	ND	0.00856/0.0257	Pass	MGK-264 II		ND	0.00392/0.0118	N/A
Etridiazole	0.0441	ND	0.0147/0.0441	Pass	Quintozene	0.016	ND	0.00533/0.0160	Pass
Fenvalerate	0.402	ND	0.134/0.402	Pass					

Compliance requirements for this test are taken from CO Hemp regulations.



Signature

PESTMYCO-LC-INST-004, PESTMYCO-LC-PREP-001: PESTMYCO-LC-INST-004, PESTMYCO-LC-PREP-001: Colorado Pesticides by LC-MS/MS • Sep 19, 2025

Analyte	Limit (µg/g)	Amt (µg/g)	LOD/LOQ (µg/g)	Pass/Fail	Analyte	Limit (µg/g)	Amt (µg/g)	LOD/LOQ (µg/g)	Pass/Fail
Abamectin	0.1	ND	0.0500/0.100	Pass	Kresoxim-methyl	0.03	ND	0.0100/0.0300	Pass
Abamectin Ba		ND	0.0330/0.0990	N/A	Malathion	0.01	ND	0.00500/0.0100	Pass
Acephate	0.03	ND	0.0100/0.0300	Pass	Metalaxyl	0.01	ND	0.00500/0.0100	Pass
Acequinocyl	0.075	ND	0.0200/0.0750	Pass	Methiocarb	0.01	ND	0.00500/0.0100	Pass
Acetamiprid	0.03	ND	0.0100/0.0300	Pass	Methomyl	0.025	ND	0.0100/0.0250	Pass
Aldicarb	0.03	ND	0.0100/0.0300	Pass	Methoprene	0.05	ND	0.0250/0.0500	Pass
Allethrin	0.03	ND	0.0150/0.0300	Pass	Mevinphos	0.025	ND	0.0100/0.0250	Pass
Atrazine	0.005	ND	0.00500/0.00500	Pass	Myclobutanil	0.01	ND	0.00500/0.0100	Pass
Azadirachtin	0.05	ND	0.0300/0.0500	Pass	Naled	0.03	ND	0.0200/0.0300	Pass
Azoxystrobin	0.01	ND	0.00500/0.0100	Pass	Novaluron	0.02	ND	0.0100/0.0200	Pass
Benzovindiflupyr	0.005	ND	0.00500/0.00500	Pass	Oxamyl	0.03	ND	0.0200/0.0300	Pass
Bifenazate	0.01	ND	0.00500/0.0100	Pass	Paclobutrazol	0.01	ND	0.00500/0.0100	Pass
Bifenthrin	0.03	ND	0.00500/0.0300	Pass	Permethrin	0.03	ND	0.00396/0.0300	Pass
Boscalid	0.01	ND	0.00500/0.0100	Pass	Permethrin cis		ND	0.0200/0.0300	N/A
Buprofezin	0.03	ND	0.0150/0.0300	Pass	Permethrin trans		ND	0.0200/0.0300	N/A
Carbaryl	0.025	ND	0.0100/0.0250	Pass	Phenothrin	0.03	ND	0.0150/0.0300	Pass
Carbofuran	0.01	ND	0.00500/0.0100	Pass	Phosmet	0.03	ND	0.0200/0.0300	Pass
Chlorantraniliprole	0.03	ND	0.0100/0.0300	Pass	Piperonylbutoxide	0.03	ND	0.0100/0.0300	Pass
Chlorpyrifos	0.075	ND	0.0100/0.0750	Pass	Pirimicarb	0.01	ND	0.00500/0.0100	Pass
Clofentezine	0.01	ND	0.00500/0.0100	Pass	Prallethrin	0.075	ND	0.0300/0.0750	Pass
Clothianidin	0.01	ND	0.00500/0.0100	Pass	Propiconazole	0.03	ND	0.0100/0.0300	Pass
Coumaphos	0.01	ND	0.00500/0.0100	Pass	Propoxur	0.01	ND	0.00500/0.0100	Pass
Cyantraniliprole	0.01	ND	0.00500/0.0100	Pass	Pyraclostrobin	0.01	ND	0.00500/0.0100	Pass
Cyhalothrin lambda	0.05	ND	0.0300/0.0500	Pass	Pyrethrins	0.03	ND	0.00357/0.0300	Pass
Cyprodinil	0.01	ND	0.00500/0.0100	Pass	Pyrethrins Pyrethrin I		ND	0.0100/0.0450	N/A
Daminozide	0.075	ND	0.0500/0.0750	Pass	Pyrethrins Pyrethrin II		ND	0.0100/0.0300	N/A
Deltamethrin	0.05	ND	0.0250/0.0500	Pass	Pyridaben	0.02	ND	0.0100/0.0200	Pass
Diazinon	0.03	ND	0.0100/0.0300	Pass	Pyriproxyfen	0.01	ND	0.00500/0.0100	Pass
Dichlorvos	0.05	ND	0.0200/0.0500	Pass	Resmethrin	0.05	ND	0.0250/0.0500	Pass
Dimethoate	0.01	ND	0.00500/0.0100	Pass	Spinetoram	0.03	ND	0.00317/0.0300	Pass
Dimethomorph	0.03	ND	0.0100/0.0300	Pass	Spinetoram J		ND	0.00500/0.0100	N/A
Dinotefuran	0.05	ND	0.0250/0.0500	Pass	Spinetoram L		ND	0.00500/0.0100	N/A
Diuron	0.01	ND	0.00500/0.0100	Pass	Spinosad	0.03	ND	0.00302/0.0300	Pass
Dodemorph	0.02	ND	0.0100/0.0200	Pass	Spinosad A		ND	0.00500/0.0100	N/A
Ethoprophos	0.01	ND	0.00500/0.0100	Pass	Spinosad D		ND	0.00500/0.0100	N/A
Etofenprox	0.03	ND	0.0100/0.0300	Pass	Spirodiclofen	0.05	ND	0.0250/0.0500	Pass
Etoxazole	0.03	ND	0.0100/0.0300	Pass	Spiromesifen	0.03	ND	0.0100/0.0300	Pass
Fenhexamid	0.045	ND	0.0200/0.0450	Pass	Spirotetramat	0.01	ND	0.00500/0.0100	Pass
Fenoxycarb	0.01	ND	0.00500/0.0100	Pass	Spiroxamine	0.03	ND	0.0200/0.0300	Pass
Fenpyroximate	0.03	ND	0.0100/0.0300	Pass	Tebuconazole	0.01	ND	0.00500/0.0100	Pass
Fensulfothion	0.01	ND	0.00500/0.0100	Pass	Tebufenozide	0.01	ND	0.00500/0.0100	Pass
Fenthion	0.0068	ND	0.00227/0.00680	Pass	Teflubenzuron	0.02	ND	0.0100/0.0200	Pass
Fipronil	0.01	ND	0.00500/0.0100	Pass	Tetrachlorvinphos	0.01	ND	0.00500/0.0100	Pass
Flonicamid	0.025	ND	0.0100/0.0250	Pass	Tetramethrin	0.05	ND	0.0250/0.0500	Pass
Fludioxonil	0.01	ND	0.00500/0.0100	Pass	Thiabendazole	0.01	ND	0.00500/0.0100	Pass
Fluopyram	0.005	ND	0.00500/0.00500	Pass	Thiacloprid	0.01	ND	0.00500/0.0100	Pass
Hexythiazox	0.03	ND	0.0100/0.0300	Pass	Thiamethoxam	0.01	ND	0.00500/0.0100	Pass
Imazalil	0.01	ND	0.00500/0.0100	Pass	Thiophanate-methyl	0.02	ND	0.0100/0.0200	Pass
Imidacloprid	0.01	ND	0.00500/0.0100	Pass	Trifloxystrobin	0.01	ND	0.00500/0.0100	Pass

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