





CERTIFICATE OF ANALYSIS SUMMARY CHART



Product	Unit Weight	CBD mg/g	Total CBD mg /Unit	CBN mg/g	Total CBN mg / Unit	THC mg/g	Total THC mg / Unit
Recovery Plus 1000 Stick	75 grams	15	1125				

Heavy Metals	Microbials	Pesticides	Solvents	Mycotoxins		
PASS	PASS	PASS	PASS	PASS		



Utah Department of Agriculture and Food **Division of Laboratory Services** 4451 South 2700 West

Taylorsville, Utah 84129 (801) 816-3840

CERTIFICATE OF ANALYSIS

Sample Information

UDAF Lab #	HP25149-6	Issue Date:	06/03/2025
Client:	MCKD Holdings / Muscle MX	Client Email:	kami@musclemx.com
Producer:	MCKD Holdings / Muscle MX	Sample Type:	Infused Non-edible Products
Description:	Recovery 1000 mg CBD I	Balm	
Batch/Lot Number:	RPS-060125	Date Received:	05/29/2025
Date Collected:		Collected By:	Self-Submitted



Notes:

Testing Summary

Analysis:	Testing Date:	Status:	Notes:
Cannabinoids	06/03/2025		

Approved By:

Date: 06/03/2025

The results reported herein pertain only to the indicated sample and may not be used as an endorsement of a product. The results are given under applicable provisions of the Utah Code and represent a true statement of the outcomes of the analyses conducted on the sample received by the laboratory. This report may not be reproduced, except in its entirety. © 2025 All Rights Reserved.

Brandon Forsyth, Ph.D State Chemist



Utah Department of Agriculture and Food **Division of Laboratory Services** 4451 South 2700 West Taylorsville, Utah 84129 (801) 816-3840

CERTIFICATE OF ANALYSIS

Cannabinoid Analysis Status: --

Sample ID:	HP25149-6	Description:	Recovery 1000 mg CBD Balm
Testing Date:	06/03/2025	Reviewed By:	Cameron Cheyne

Method: ACL.AM.003 Analysis performed using High-Performance Liquid Chromatography (HPLC-DAD)

Analyte	Abbreviation	CAS Number	% (w/w)	mg/g
Δ9-Tetrahydrocannabidiol	Δ9-ΤΗС	1972-08-03	ND	ND
Δ8-Tetrahydrocannabidiol	Δ8-ΤΗС	5957-75-5	ND	ND
Δ9-Tetrahydrocannabinolic acid	THCA	23978-85-0	ND	ND
Δ9-Tetrahydrocannabivarin	THCV	31262-37-0	ND	ND
Cannabidiol	CBD	13956-29-1	1.50%	15
Cannabidiolic acid	CBDA	1244-58-2	NQ	NQ
Cannabidivarin	CBDV	24274-48-4	ND	ND
Cannabinol	CBN	521-35-7	<loq< td=""><td><loq< td=""></loq<></td></loq<>	<loq< td=""></loq<>
Cannabigerol	CBG	25654-31-3	ND	ND
Cannabichromene	CBC	20675-51-8	ND	ND
Cannabigerolic acid	CBGA	25555-57-1	ND	ND
Cannabichromenic acid	CBCA	20408-52-0	ND	ND
Cannabicitran	CBTC	31508-71-1	0.04%	0.4
9(R+S)-∆6a,10a-Tetrahydrocannabidiol	Δ3-THC	95720-01-07, 95720- 02-8	ND	ND
(6aR,9R)-Δ10-Tetrahydrocannabidiol	(6aR,9R)-Δ10-THC	95543-62-7	ND	ND
(6aR,9S)-Δ10-Tetrahydrocannabidiol	(6aR,9S)-Δ10-THC	95588-87-7	ND	ND
Total Cannabinoids			1.54%	15.40
Total THC			ND	ND
Total CBD			1.50%	15.00
Total THC Analogs			0.04%	0.4

Unknown Cannabinoid Peak Area: NQ

Mass Per Piece: -- Status: --

Notes:

Total Cannabinoids is calculated as the direct sum of each of the cannabinoid values. Total THC is calculated as $\Delta 9$ -THC + (THCA x 0.877) | Total CBD is calculated as CBD + (CBDA x 0.877). Total THC Analogs is calculated as $\Delta 9$ -THC + (THCA x 0.877) + $\Delta 8$ -THC + CBTC. ND = Not Detected, NQ = Not Quantifiable, NT = Not Tested, <LOQ = Below the limit of quantification

The results reported herein pertain only to the indicated sample and may not be used as an endorsement of a product. The results are given under applicable provisions of the Utah Code and represent a true statement of the outcomes of the analyses conducted on the sample received by the laboratory. This report may not be reproduced, except in its entirety. © 2025 All Rights Reserved.



Comprehensive Analysis Report

Sample Overview

Client: Muscle MX

498 West 8360 South, Sandy, UT

84070

Sample Name: Recovery 1000mg Balm

Sample Matrix: Topical Applicant Sample Lot: RPS-060125 Date Received: 06/05/2025

APRC #: MMX250606F



Assay	Disposition	Date Tested
Heavy Metals - Utah State Cannabis Panel	Tested	06/11/2025
Microbial: Quantitative and Pathogen Detection Combo	Tested	06/10/2025
Pesticide Screen (APRC Panel)	Tested	06/12/2025
Hemp or R&D Residual Solvents	Tested	06/09/2025
Mycotoxin Quantitation	Tested	06/12/2025



Accreditation #115229 Aromatic Plant Research Center is an ISO 17025:2017 certified laboratory.



Heavy Metals

Method: CTLA Sample Name: Recovery 1000mg Balm APRC Lot Number: MMX250606F

Analyte	Result (ppm)	LOD (ppm)	Threshold (ppm)	Pass/Fail
Arsenic	<0.001	0.001	2.00	Pass
Cadmium	<0.001	0.001	0.82	Pass
Lead	<0.001	0.001	1.20	Pass
Mercury	<0.001	0.001	0.40	Pass

Heavy metal analysis is completed in partnership with Contract Testing Laboratories of America, Orem UT.

Performed by: CTLA

Reviewed by: Jordan Morley



Microbial Impurities

Method: SOP 1-2034.01 and 1-2035.01 Sample Name: Recovery 1000mg Balm APRC Lot Number: MMX250606F

Total Counts					
Microbial Group:	Result (CFU/g):	Specification:	Disposition:		
Total Aerobic Bacteria	<10	≤250	Pass		
Total Yeast and Mold	<10	≤250	Pass		

Specific Organism Identification					
Microbial Organism:	Result:	Specification:	Disposition		
Aspergillus flavus	NT	NT	Not Tested		
Aspergillus fumigatus	NT	NT	Not Tested		
Aspergillus niger	NT	NT	Not Tested		
Aspergillus terreus	NT	NT	Not Tested		
E. coli	NT	NT	Not Tested		
STEC	NT	NT	Not Tested		
Salmonella - Specific Gene	NT	NT	Not Tested		
Staphylococcus aureus	Not Detected	Not Detected	Pass		
Pseudomonas aeruginosa	Not Detected	Not Detected	Pass		

Performed by: Heidi Kipp Notes: Foreign Matter: Not Detected.

Reviewed by: Jordan Morley



Pesticides

Method: Sample Name: Recovery 1000mg Balm APRC Lot Number: MMX250606F

Pesticide:	Finding	Action Limit (μg/g)	Pass/Fail			
Abamectin	ND	0.5	Pass			
Acephate	ND	0.4	Pass			
Acequinocyl	ND	2.0	Pass			
Acetamiprid	ND	0.2	Pass			
Aldicarb	ND	0.4	Pass			
Azoxystrobin	ND	0.2	Pass			
Bifenazate	ND	0.2	Pass			
Bifenthrin	ND	0.2	Pass			
Boscalid	ND	0.4	Pass			
Carbaryl	ND	0.2	Pass			
Carbofuran	ND	0.2	Pass			
Chlorantraniliprole	ND	0.2	Pass			
Chlorfenapyr	ND	1.0	Pass			
Chlorpyrifos	ND	0.2	Pass			
Clofentezine	ND	0.2	Pass			
Cyfluthrin	ND	1.0	Pass			
Cypermethrin	ND	1.0	Pass			
Daminozide	ND	1.0	Pass			
Dichlorvos	ND	0.1	Pass			
Diazinon	ND	0.2	Pass			
Dimethoate	ND	0.2	Pass			
Ethoprophos	ND	0.2	Pass			
Etofenprox	ND	0.4	Pass			
Etoxazole	ND	0.2	Pass			
Fenoxycarb	ND	0.2	Pass			
Fenpyroximate	ND	0.4	Pass			
Fipronil	ND	0.4	Pass			
Flonicamid	ND	1.0	Pass			
Fludioxonil	ND	0.4	Pass			
	-					

Pesticide:	Finding	Action Limit (μg/g)	Pass/Fail
Hexythiazox	ND	1.0	Pass
Imazalil	ND	0.2	Pass
Imidacloprid	ND	0.4	Pass
Kresoxim-methyl	ND	0.4	Pass
Malathion	ND	0.2	Pass
Metalaxyl	ND	0.2	Pass
Methiocarb	ND	0.2	Pass
Methomyl	ND	0.4	Pass
Methyl parathion	ND	0.2	Pass
MGK-264	ND	0.2	Pass
Myclobutanil	ND	0.2	Pass
Naled	ND	0.5	Pass
Oxamyl	ND	1.0	Pass
Paclobutrazol	ND	0.4	Pass
Permethrins	ND	0.2	Pass
Phosmet	ND	0.2	Pass
Piperonyl butoxide	ND	2.0	Pass
Prallethrin	ND	0.2	Pass
Propiconazole	ND	0.4	Pass
Propoxur	ND	0.2	Pass
Pyrethrin	ND	1.0	Pass
Pyridaben	ND	0.2	Pass
Spinosad	ND	0.2	Pass
Spiromesifen	ND	0.2	Pass
Spirotetramat	ND	0.2	Pass
Spiroxamine	ND	0.4	Pass
Tebuconazole	ND	0.4	Pass
Thiacloprid	ND	0.2	Pass
Thiamethoxam	ND	0.2	Pass
Trifloxystrobin	ND	0.2	Pass

Performed by:

<u>Anil</u> <u>Rokaya</u> Reviewed by: Tessa Crook

Pesticide testing performed in a non-ISO 17025:2017 accredited facility. Pass/Fail determinations based on Utah Administrative Rule R68-29.



Residual Solvents

Method: SOP 1-2027.03 Sample Name: Recovery 1000mg Balm APRC Lot Number: MMX250606F

Residual Solvent	Finding (μg/g)	Action Level (μg/g)	Pass/Fail
Dimethyl sulfoxide	ND	5000	Pass
N, N-dimethylacetamide	ND	1090	Pass
1,2 Dimethoxyethane	ND	100	Pass
1,4 Dioxane	ND	380	Pass
1-Butanol	ND	5000	Pass
1-Pentanol	ND	5000	Pass
1-Propanol	ND	5000	Pass
2-Butanone	ND	5000	Pass
2-Butanol	ND	5000	Pass
2-Ethoxyethanol	ND	160	Pass
2-Methylbutane	ND	5000	Pass
2-Propanol	ND	5000	Pass
Acetone	5.779	5000	Pass
Acetonitrile	ND	410	Pass
Benzene	ND	2	Pass
Butane	ND	5000	Pass
Cumene	ND	70	Pass
Cyclohexane	ND	3880	Pass
Dichloromethane	ND	600	Pass
2,2-Dimethylbutane	ND	290	Pass
2,3-Dimethylbutane	ND	290	Pass
m,p-Xylene	ND	See Total Xylenes	Pass
o-Xylene	ND	See Total Xylenes	Pass
Ethanol	29.184	5000	Pass
Ethyl Acetate	ND	5000	Pass
Ethyl Benzene	ND	See Total Xylenes	Pass
Ethyl Ether	ND	5000	Pass
Ethylene Glycol	ND	620	Pass
Ethylene Oxide	ND	50	Pass

Residual Solvent	Finding (μg/g)	Action Level (µg/g)	Pass/Fail		
Heptane	ND	5000	Pass		
Hexane	ND	290	Pass		
Isopropyl Acetate	ND	5000	Pass		
Methanol	ND	3000	Pass		
Methylpropane	ND	5000	Pass		
2-Methylpentane	ND	290	Pass		
3-Methylpentane	ND	290	Pass		
N,N-Dimethylformamide	ND	880	Pass		
Pentane	ND	5000	Pass		
Propane	ND	5000	Pass		
Pyridine	ND	100	Pass		
Sulfolane	ND	160	Pass		
Tetrahydrofuran	ND	720	Pass		
Toluene	ND	890	Pass		
Total Xylenes	ND	2170	Pass		

† Per Utah state code 4-41a-701(3) Section R68-29-6 ‡ Total Xylenes is a combination of the following: o-Xylene, m-Xylene, p-Xylene, and Ethylbenzene

Overall Disposition: <u>Pass</u>
Performed By: <u>Anil Rokaya</u>
Reviewed By: <u>Tessa Crook</u>



Mycotoxins

Method: Mycotoxin Sample Name: Recovery 1000mg Balm APRC Lot Number: MMX250606F

Mycotoxin	Finding (µg/kg)	Limit(µg/kg)	Pass/Fail
Aflatoxin B1:	ND	70/	
Aflatoxin B2:	ND		
Aflatoxin G1:	ND		
Aflatoxin G2:	ND		
Total Aflatoxins:	0	20	Pass
Ochratoxin A:	ND	20	Pass

Performed by: Anil Rokaya

Reviewed by: Tessa Crook

Approved By:

Nicholas Saichek, PhD

Senior Scientist Mass Spectrometry, Mass My Potoxin testing performed in a non-ISO 17025:2017 accredited facility. Pass/Fail determinations based on Utah Administrative Rule R68-29.

06/13/2025