



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
Activate Tub	350 grams	6.01	2103.5				

Heavy Metals	Microbials	Pesticides	Solvents	Mycotoxins			
PASS	PASS	PASS	PASS	PASS			

Comprehensive Analysis Report

Sample Overview

Client: Muscle MX

498 West 8360 South, Sandy, UT
84070

Sample Name: Muscle MX Activate 2000mg CBD
Balm

Date Received: 02/11/2025

APRC #: MMX250212A

Sample Matrix: Topical Applicant

Sample Lot: ACT-070124

Assay	Disposition	Date Tested
Hemp or R&D Cannabinoid Testing (Potency)	Tested	02-12-2025

HPLC Analysis Report

Potency

Method: SOP 1-2026.03 Sample Name: Muscle MX Activate 2000mg CBD Balm APRC Lot Number: MMX250212A

Cannabinoid	RT	Total %	Total mg/g
Cannabidivarinic Acid (CBDVA)	ND	ND	ND
Cannabidivarin (CBDV)	ND	ND	ND
Cannabidiolic Acid (CBDA)	ND	ND	ND
Cannabigerolic Acid (CBGA)	ND	ND	ND
Cannabinol (CBN)	ND	ND	ND
Cannabidiol (CBD)	3.48	0.60	6.01
Cannabigerol (CBG)	ND	ND	ND
Tetrahydrocannabivarin (THCV)	ND	ND	ND
Tetrahydrocannabivarin Acid (THCVA)	ND	ND	ND
Delta-9-Tetrahydrocannabinol (Δ9-THC)	ND	ND	ND
Delta-8-Tetrahydrocannabinol (Δ8-THC)	ND	ND	ND
Tetrahydrocannabinolic acid (THCA-A)	ND	ND	ND
Cannabichromene (CBC)	ND	ND	ND
Cannabichromene Acid (CBCA)	ND	ND	ND
Δ10 and Δ6a,10a-Tetrahydrocannabinol, mixed isomers	ND	ND	ND
(6aR,9R)-Δ10-Tetrahydrocannabidiol	NT	0.00	NT
(6aR,9S)-Δ10-Tetrahydrocannabidiol	NT	0.00	NT
9(R+S)-Δ6a,10a-Tetrahydrocannabidiol	NT	0.00	NT
Cannabicitran (CBTC)	ND	ND	ND

Performed by: Rakesh Satyal

Reviewed by: Riley Hunter

	%	mg/g
Total Cannabinoids	0.60	6.01
Total THC ^t	ND	ND
Total CBD ^s	0.60	6.01

^tTotal Thc is calculated by Δ9-THC + (THCA-A*0.877)

^sTotal CBD is calculated by CBD + (CBDA*0.877)

Approved By:

Preliminary report issued at the request of the client. Final report to be issued at a later date.
02/13/2025

Comprehensive Analysis Report

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Sample Matrix: Topical Applicant

Sample Lot: ACT-070124

Assay	Disposition	Date Tested
Heavy Metals - Utah State Cannabis Panel	Tested	02-26-2025

ICPMS Analysis Report

Heavy Metals

Method: CTLA

Sample Name: Muscle MX Activate 2000mg CBD Balm

APRC Lot Number: MMX250212A

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

Approved By:

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02/27/2025

Comprehensive Analysis Report

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APRC #: MMX250212A

Sample Matrix: Topical Applicant

Sample Lot: ACT-070124

Assay	Disposition	Date Tested
Hemp or R&D Residual Solvents	Tested	02-21-2025

GCMS Analysis Report

Residual Solvents

Method: SOP 1-2027.03 Sample Name: Muscle MX Activate 2000mg CBD Balm APRC Lot Number: MMX250212A

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	33.314	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	ND	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	8.593	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: Pass
Performed By: Anil Rokaya
Reviewed By: Riley Hunter

Approved By:

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02/25/2025

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Sample Matrix: Topical Applicant

Sample Lot: ACT-070124

Assay	Disposition	Date Tested
Microbial: Quantitative and Pathogen Detection Combo	Tested	02-25-2025

None Analysis Report

Microbial Impurities

Method: SOP 1-2034.01 and
1-2035.01

Sample Name: Muscle MX Activate 2000mg CBD Balm
APRC Lot Number:
MMX250212A

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

Approved By:

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Overall Disposition: Pass
Performed By: Anil Rokaya
Reviewed By: Riley Hunter

Approved By:

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02/25/2025