

CERTIFICATE OF ANALYSIS SUMMARY CHART



Product	Unit Weight	CBD mg/g	Total CBD mg /Unit	CBN mg/g	Total CBN mg / Unit	CBG mg/g	Total CBG mg /Unit
Bliss 50mg Gummies	3 grams	19.70	59.1	.04	1.2	1.7	5.1

Heavy Metals	Microbials	Pesticides	Solvents	Mycotoxins			
NA	NA	NA	NA	NA			



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 #	HP24291-3	Issue Date:	10/21/2024
Client:	Muscle MX	Client Email:	kami@musclemx.com
Producer:	Muscle MX	Sample Type:	Gelatinous Cubes
Description:	Muscle MX Bliss CBD Gummies		
Batch/Lot Number:	MXGMBL24	Date Received:	10/17/2024
Date Collected:		Collected By:	Self-Submitted

Notes:



Testing Summary

Analysis:	Testing Date:	Status:	Notes:
Cannabinoids	10/18/2024	--	

Approved By: _____

Brandon Forsyth, Ph.D
State Chemist

Date: 10/21/2024

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. © 2024 All Rights Reserved.



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CERTIFICATE OF ANALYSIS

Cannabinoid Analysis

Status: --

Sample ID:	HP24291-3	Description:	Muscle MX Bliss CBD Gummies
Testing Date:	10/18/2024	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
Δ 9-Tetrahydrocannabinidiol	Δ 9-THC	1972-08-03	ND	ND
Δ 8-Tetrahydrocannabinidiol	Δ 8-THC	5957-75-5	ND	ND
Δ 9-Tetrahydrocannabinolic acid	THCA	23978-85-0	ND	ND
Δ 9-Tetrahydrocannabivarin	THCV	31262-37-0	ND	ND
Cannabidiol	CBD	13956-29-1	1.97%	19.7
Cannabidiolic acid	CBDA	1244-58-2	ND	ND
Cannabidivarin	CBDV	24274-48-4	0.03%	0.3
Cannabinol	CBN	521-35-7	0.04%	0.4
Cannabigerol	CBG	25654-31-3	0.17%	1.7
Cannabichromene	CBC	20675-51-8	<LOQ	<LOQ
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)- Δ 6a,10a-Tetrahydrocannabinidiol	Δ 3-THC	95720-01-07, 95720-02-8	ND	ND
(6aR,9R)- Δ 10-Tetrahydrocannabinidiol	(6aR,9R)- Δ 10-THC	95543-62-7	ND	ND
(6aR,9S)- Δ 10-Tetrahydrocannabinidiol	(6aR,9S)- Δ 10-THC	95588-87-7	ND	ND
Total Cannabinoids			2.25%	22.50
Total THC			ND	ND
Total CBD			1.97%	19.70
Total THC Analogs			0.04%	0.4

Unknown Cannabinoid Peak Area: 1.2%

Mass Per Piece: 2.88 g

Status: --

Notes:

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

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Comprehensive Analysis Report

Sample Overview

Client: Muscle MX

498 West 8360 South, Sandy, UT
84070

Date Received: 10/17/2024

Sample Name: Muscle MX Bliss CBD Gummies

APRC #: MMX241018A

Sample Matrix: Gelatinous Cube

Sample Lot: MXGMBL24



Assay	Disposition	Date Tested
Microbial: Quantitative and Pathogen Detection Combo	Tested	10-21-2024

None Analysis Report

Microbial Impurities

Method: SOP 1-2034.01 and
1-2035.01

Sample Name: Muscle MX Bliss CBD
Gummies

APRC Lot Number:
MMX241018A

Total Counts			
Microbial Group:	Result (CFU/g):	Specification:	Disposition:
Total Aerobic Bacteria	120	≤10,000	Pass
Total Yeast and Mold	<10	≤1,000	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	Not Detected	Not Detected	Pass
STEC	NT	NT	Not Tested
Salmonella - Specific Gene	Not Detected	Not Detected	Pass
Staphylococcus aureus	Not Detected	Not Detected	Pass
Pseudomonas aeruginosa	Not Detected	Report Only	Tested

Performed by: Jordan Morley

Notes: Foreign Matter: Not detected

Reviewed by: Tessa Crook

Approved By:

Preliminary report issued at the request of the client. Final report to be issued at a later date.
10/22/2024

Comprehensive Analysis Report

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84070

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Assay	Disposition	Date Tested
Mycotoxin Quantitation	Tested	10-21-2024

LCMS Analysis Report

Mycotoxins

Method: Mycotoxin

Sample Name: Muscle MX Bliss CBD Gummies

APRC Lot Number: MMX241018A

Mycotoxin	Finding (µg/kg)	Limit(µg/kg)	Pass/Fail
Aflatoxin B1:	ND		
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: Nicholas Saichek

Approved By:

Preliminary results provided at request of the client. A complete COA will be generated at a later date.
10/22/2024

Comprehensive Analysis Report

Sample Overview

Client: Muscle MX

498 West 8360 South, Sandy, UT
84070

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Sample Name: Muscle MX Bliss CBD Gummies

APRC #: MMX241018A

Sample Matrix: Gelatinous Cube

Sample Lot: MXGMBL24



Assay	Disposition	Date Tested
Pesticide Screen (APRC Panel)	Tested	10-21-2024

LCMS Analysis Report

Pesticides

Method:

Sample Name: Muscle MX Bliss CBD Gummies

APRC Lot Number: MMX241018A

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
Hexythiazon	ND	1.0	Pass
Imazal	ND	0.2	Pass
Imidacloprid	ND	0.4	Pass
Kresoxim-methyl	ND	0.4	Pass
Malathion A	ND	0.2	Pass
Metalaxyl	ND	0.2	Pass
Methiocarb	ND	0.2	Pass
Methomyl	ND	0.4	Pass
Methylparathion	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
Piperonylbutoxide	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
Spinetoram	ND	0.1	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: Anil Rokaya Reviewed by: Nicholas Saichek

Approved By:

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10/22/2024

Comprehensive Analysis Report

Sample Overview

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APRC #: MMX241018A

Sample Matrix: Gelatinous Cube

Sample Lot: MXGMBL24

Assay	Disposition	Date Tested
Hemp or R&D Residual Solvents	Tested	10-18-2024

GCMS Analysis Report

Residual Solvents

Method: SOP 1-2027.03

Sample Name: Muscle MX Bliss CBD Gummies

APRC Lot Number: MMX241018A

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	ND	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	154.267	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: Pass
Performed By: Anil Rokaya
Reviewed By: Riley Hunter

Approved By:

Preliminary results provided at request of the client. A complete COA will be generated at a later date.
10/21/2024

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84070

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Sample Matrix: Gelatinous Cube

Sample Lot: MXGMBL24



Assay	Disposition	Date Tested
Heavy Metals - Utah State Cannabis Panel	Tested	10-23-2024

ICPMS Analysis Report

Heavy Metals

Method: CTLA

Sample Name: Muscle MX Bliss CBD Gummies

APRC Lot Number: MMX241018A

Analyte	Result (ppm)	LOD (ppm)	Threshold (ppm)	Pass/Fail
Arsenic	ND	0.001	2.00	Pass
Cadmium	ND	0.001	0.82	Pass
Lead	0.020	0.001	1.20	Pass
Mercury	ND	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:

Preliminary report issued at the request of the client. Final report to be issued at a later date.
10/23/2024