



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
Restore 300 Mini Lotion	34 grams	8.7	295.8				

Heavy Metals	Microbials	Pesticides	Solvents	Mycotoxins		
PASS	PASS	PASS	PASS	PASS		

MUSCLEMX.COM



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 #	HP24172-25	Issue Date:	06/28/2024
Client:	Muscle MX	Client Email:	mike@musclemx.com
Producer:	Muscle MX	Sample Type:	Transdermal
Description:	Restore Mini 300mg Lotio	n	
Batch/Lot Number:	24158	Date Received:	06/20/2024
Date Collected:		Collected By:	Self-Submitted



Notes:

Testing Summary

Analysis:	Testing Date:	Status:	Notes:
Cannabinoids	06/27/2024		

Date: 06/28/2024 Approved By: Brandon Forsyth, Ph.D State Chemist

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.



CERTIFICATE OF ANALYSIS

Cannabinoid Analysis			Status:
Sample ID:	HP24172-25	Description:	Restore Mini 300mg Lotion
Testing Date:	06/27/2024	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
Δ9-Tetrahydrocannabidiol	Δ9-ΤΗΟ	1972-08-03	ND	ND
Δ8-Tetrahydrocannabidiol	Δ8-THC	5957-75-5	ND	ND
Δ9-Tetrahydrocannabinolic acid	THCA	23978-85-0	ND	ND
∆9-Tetrahydrocannabivarin	THCV	31262-37-0	NQ	NQ
Cannabidiol	CBD	13956-29-1	0.87%	8.7
Cannabidiolic acid	CBDA	1244-58-2	ND	ND
Cannabidivarin	CBDV	24274-48-4	ND	ND
Cannabinol	CBN	521-35-7	0.03%	0.3
Cannabigerol	CBG	25654-31-3	ND	ND
Cannabichromene	CBC	20675-51-8	<loq< td=""><td><loq< td=""></loq<></td></loq<>	<loq< td=""></loq<>
Cannabigerolic acid	CBGA	25555-57-1	ND	ND
Cannabichromenic acid	CBCA	20408-52-0	ND	ND
Cannabicitran	CBTC	31508-71-1	ND	ND
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)-∆10-Tetrahydrocannabidiol	(6aR,9S)-∆10-THC	95588-87-7	ND	ND
Total Cannabinoids			0.90%	9.00
Total THC			ND	ND
Total CBD			0.87%	8.70
Total THC Analogs			ND	ND

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

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Comprehensive Analysis Report

Sample Overview

Client: Muscle MX 498 West 8360 South, Sandy, UT 84070 Sample Name: Restore Mini 300 mg Sample Matrix: Topical Applicant Sample Lot: 24158

Date Received: 06/20/2024 APRC #: MMX2406211

		Assay	Disposition	Date Tested
		Heavy Metals - Utah State Cannabis Panel	Tested	06-27-2024
LOTION		Microbial: Quantitative and Pathogen Detection Combo	Tested	06-24-2024
		Pesticide Screen (APRC Panel)	Tested	06/21/2024
Щ		Hemp or R&D Residual Solvents	Tested	06-21-2024
N		Mycotoxin Quantitation	Tested	06-21-2024
TARGETED RELIEF				
300mg CBD NET WT 1.2 oz (34g)				



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

Heavy Metals



Method: CTLA	Sample Nam	e: Restore Mini 300 mg	mg APRC Lot Number: MMX240	
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	0.009	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: Sophie Pearson

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Microbial Impurities

Method: SOP 1-2034.01 and 1-2035.01 Sample Name: Restore Mini 300 mg APRC Lot Number: MMX2406211

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:	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: Jordan Morley

Notes: Foreign Matter: Not Detected.

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

ND

Daminozide

Dichlorvos

Diazinon

Dimethoate

Ethoprophos

Etofenprox

Etoxazole

Fenoxycarb

Fenpyroximate

Fipronil

Flonicamid

Fludioxonil

1.0

1.0

0.1

0.2

0.2

0.2

0.4

0.2

0.2

0.4

0.4

1.0

0.4

Pesticides

Pesticide: Abamectin Acephate Acequinocyl Acetamiprid Aldicarb Azoxystrobin Bifenazate Bifenthrin Boscalid Carbaryl Carbofuran Chlorantraniliprole Chlorfenapyr Chlorpyrifos Clofentezine Cyfluthrin Cypermethrin

Method:



Sample Name: Restore Mini 300 mg

Finding	Action Limit (µg/g)	Pass/Fail	Pesticide:
ND	0.5	Pass	Hexythiazor
ND	0.4	Pass	Imazal
ND	2.0	Pass	Imidacloprid
ND	0.2	Pass	Kresoxim-meth
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	Methylparathi
ND	0.2	Pass	MGK-264
ND	0.2	Pass	Myclobutani
ND	0.2	Pass	Naled
ND	1.0	Pass	Oxamyl
ND	0.2	Pass	Paclobutrazo
ND	0.2	Pass	Permethrins
ND	1.0	Pass	Phosmet

Pass

APRC Lot Number: MMX2406211

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
formed by: <u>Nichola</u> Saiche		viewed <u>Willian</u> v: <u>Deutse</u>	

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

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Residual Solvents

Method: SOP 1-2027.03

Sample Name: Restore Mini 300 mg

APRC Lot Number: MMX240621I

Residual Solvent	Finding (µg/g)	Action Level (µg/g)	Pass/Fai	
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	6.948	5000	Pass	
Acetone	10.573	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 Pa		
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	11.197	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>Riley Hunter</u>





Mycotoxins

ethod: Mycotoxin	Sample Name: Restore Mini	300 mg APRC	APRC Lot Number: MMX24062	
Mycotoxin	Finding (µg/kg)	Limit(µg/kg)	Pass/Fail	
Aflatoxin B1:	ND	Sr		
Aflatoxin B2:	ND			
Aflatoxin G1:	ND			
Aflatoxin G2:	ND			
Total Aflatoxins:	0	20	Pass	
Ochratoxin A:	ND	20	Pass	

Performed by: Nicholas Saichek

Reviewed by: William Deutschman

Aor Mor

Approved By: Jordan Morley Laboratory Supervisor Mycotoxin testing performed in a non-ISO 17025:2017 accredited facility. Pass/Fail determinations based on Utah Administrative Rule R68-29. 06/28/2024

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