



CERTIFICATE OF ANALYSIS

STATUS: **RELEASED** REVISION: 00

DATE: 01/10/2022

Analysis ID No. 215085
TDA License No. 2020002
ISO/IEC No. 1055838
Purchase Order: 20211139
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CUSTOMER INFORMATION	SAMPLE INFORMATION
Company Name:	Submitted Sample Name:
Madewell Collective	TUSK; Mandarin Orange Flavoured Gummies, Kratom Extract
Address:	Submitted Sample Lot:
1041 Crews Commerce Dr, STE 100; Orlando, Florida 32837	Not Provided
Phone Number:	Submitted Sample Description:
407-455-1399	Gummies in Retail Mylar Pouch; Stored at Room Temp.
Contact Name / Email:	Submitted Sample Product Type / Matrix:
Paxton Shaw / paxton@madewellco.com	Kratom Extract / Edible

LABEL CLAIM					
Analysis	Test Method	LOQ	Specifications	Test Results	Pass / Fail
Mitragynine	UHPLC-DAD	0.01 w/w%	mg/g: Report Only mg/unit: Report Only* Target: 35 mg/gummy	5.438 mg/g 35.529 mg/gummy	Results Reported
Total Mitragynine	UHPLC-DAD	0.01 w/w%	mg/unit: Report Only** Target: 350 mg/unit	355.289 mg/unit	Results Reported
Mitragynine	UHPLC-DAD	0.01 w/w%	% Label Claim: 90.0 to 110.0% Target: 100%	101.5%	PASS
*Gummy Unit Weight = 6.534 grams; **Unit = 10 Gummies					

ALKALOIDS ASSAY					
Analysis	Test Method	LOQ	Specifications	Test Results	Pass / Fail
Mitragynine	UHPLC-DAD	0.01 w/w%	w/w%: Report Only mg/g: Report Only	0.544 w/w% 5.438 mg/g	Results Reported
Paynantheine	UHPLC-DAD	0.01 w/w%	w/w%: Report Only mg/g: Report Only	0.014 w/w% 0.135 mg/g	Results Reported
Speciogynine	UHPLC-DAD	0.01 w/w%	w/w%: Report Only mg/g: Report Only	0.010 w/w% 0.102 mg/g	Results Reported
Speciociliatine	UHPLC-DAD	0.01 w/w%	w/w%: Report Only mg/g: Report Only	< 0.01 w/w%	Results Reported
7-OH-Mitragynine	UHPLC-DAD	0.01 w/w%	w/w%: Report Only mg/g: Report Only % Total Alkaloids: NMT 2%	< 0.01 w/w%	PASS
Mitraphylline	UHPLC-DAD	0.01 w/w%	w/w%: Report Only mg/g: Report Only	< 0.01 w/w%	Results Reported
Isorhynchophylline	UHPLC-DAD	0.01 w/w%	w/w%: Report Only mg/g: Report Only	< 0.01 w/w%	Results Reported
Corynoxine	UHPLC-DAD	0.01 w/w%	w/w%: Report Only mg/g: Report Only	< 0.01 w/w%	Results Reported
Total Alkaloids	UHPLC-DAD	0.01 w/w%	w/w%: Report Only mg/g: Report Only	0.567 w/w% 5.675 mg/g	Results Reported



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MICROBIOLOGICAL ASSAY					
Analysis	Test Method	LOQ	Specifications	Test Results	Pass / Fail
Total Aerobic Plate Count (TAPC)	Isolation Agar	20 CFU/gm	NMT 10,000,000 CFU/gm	< LOQ	PASS
Total Yeast & Mold (TYM)	Isolation Agar	20 CFU/gm	NMT 100,000 CFU/gm	< LOQ	PASS
Escherichia coli (E.coli)	Isolation Agar	1 CFU/10 gm	Absent in 10 gm	Absent	PASS
Salmonella	Isolation Agar	1 CFU/25 gm	Absent in 25 gm	Absent	PASS


HEAVY METALS					
Analysis	Test Method	LOQ	Specifications	Test Results	Pass / Fail
Lead	USP <232> <233> by ICP-MS	10 ppb	NMT 1,000 ppb	< LOQ	PASS
Mercury	USP <232> <233> by ICP-MS	5 ppb	NMT 500 ppb	< LOQ	PASS
Cadmium	USP <232> <233> by ICP-MS	10 ppb	NMT 300 ppb	< LOQ	PASS
Arsenic	USP <232> <233> by ICP-MS	10 ppb	NMT 1,500 ppb	< LOQ	PASS
Nickel	USP <232> <233> by ICP-MS	10 ppb	NMT 200,000 ppb	< LOQ	PASS

TESTING FACILITY INFORMATION	SAMPLE INFORMATION
Santé Laboratories 8201 East Riverside Drive, STE 650 Austin, Texas 78744 USA	Santé Sample ID: 215085 Receipt Date: 12/29/2021 / 09:29 AM CST / M Cardona Receipt Condition: Good Analysis Start Date: 01/05/2022

ADDITIONAL REPORT NOTES
The reported results presented in this document is only applicable to samples submitted to Santé Laboratories for testing and may not represent the entire lot and/or batch produced by the manufacturer. Heavy metal specifications according to limits defined by Texas DSHS for consumable hemp. Nickel specification according to oral drug products per USP <232>. Microbiological specifications follow AHPA guidelines for botanical extracts. ©2020 Santé Laboratories, LLC – All Rights Reserved

VERSION HISTORY		
Version	Effective Date	Summary of Changes
00	01/10/2022	Initial Release

PRODUCT SAMPLE / IMAGE


REVIEWED AND APPROVED BY
<div> <div>DocuSigned by:</div> <div>  </div> </div> <div> Brian Sloat, Ph.D. Chief Scientific Officer / Quality Manager Santé Laboratories </div> <div> 10 January 2022 5:45:31 PM PST Date </div>