

STATUS: RELEASED REVISION: 00 DATE: 03/14/2022
 Analysis ID No.
 220963

 TDA License No.
 2020002

 ISO/IEC No.
 1055838

 Purchase Order:
 20220264

 Page No.
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CUSTOMER INFORMATION	SAMPLE INFORMATION	
Company Name:	Submitted Sample Name:	
HUSH Worldwide LLC	Hush Ultra Shot, Full Spectrum Kratom Extract; 10mL	
Address: Submitted Sample Lot:		
N/A	H5039	
Phone Number:	Submitted Sample Description:	
1-833-289-4874	Amber Liquid in Glass Beverage Bottle; Stored Room Temperature	
Contact Name / Email:	Submitted Sample Product Type / Matrix:	
N/A	Kratom Extract / Beverage	

LABEL CLAIM					
Analysis	Test Method	LOQ	Specifications	Test Results	Pass / Fail
Mitragynine	UHPLC-DAD	0.01 w/w%	mg/mL: Report Only* mg/unit: Report Only** <i>Target: 100 mg/unit</i>	10.743 mg/mL 107.432 mg/unit	Results Reported
Mltragynine	UHPLC-DAD	0.01 w/w%	% Label Claim: 90.0 to 110.0% <i>Target: 100%</i>	107.4%	PASS
Total Reported Alkaloids	UHPLC-DAD	0.01 w/w%	mg/mL: Report Only* mg/unit: Report Only**	21.984 mg/mL 219.843 mg/unit	Results Reported
*Solution Density = 1.055 g/mL; **Unit Volume = 10.0 mL					

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	1.018 w/w% 10.743 mg/g	Results Reported
Paynantheine	UHPLC-DAD	0.01 w/w%	w/w%: Report Only mg/g: Report Only	0.295 w/w% 2.953 mg/g	Results Reported
Speciogynine	UHPLC-DAD	0.01 w/w%	w/w%: Report Only mg/g: Report Only	0.218 w/w% 2.296 mg/g	Results Reported
Speciociliatine	UHPLC-DAD	0.01 w/w%	w/w%: Report Only mg/g: Report Only	0.482 w/w% 4.822 mg/g	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	0.017 w/w% 0.168 mg/g	Results Reported
Corynoxine	UHPLC-DAD	0.01 w/w%	w/w%: Report Only mg/g: Report Only	0.054 w/w% 0.536 mg/g	Results Reported
Total Alkaloids	UHPLC-DAD	0.01 w/w%	w/w%: Report Only mg/g: Report Only	2.084 w/w% 20.838 mg/g	Results Reported



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MICROBIOLOGICAL ASSAY						
Analysis		Test Method	LOQ	Specifications	Test Results	Pass / Fail
Total Aerobic Plate Count (TAPC)	Total Aerobic Plate Count (TAPC) Isolation Agar		10 CFU/gm	NMT 10,000 CFU/gm	< LOQ	PASS
Total Yeast & Mol (TYM)	d I	Isolation Agar	10 CFU/gm	NMT 1,000 CFU/gm	< LOQ	PASS
Coliforms	1	Isolation Agar	10 CFU/gm	NMT 100 CFU/gm	< LOQ	PASS
Esherichia coli (E. coli)	1	Isolation Agar	1 CFU/10 gm	Absent in 10 gm	Absent	PASS
Salmonella	1	Isolation Agar	1 CFU/10 gm	Absent in 10 gm	Absent	PASS
			ŀ	IEAVY METALS		
Analysis	Tes	st Method	LOQ	Specifications	Test Results	Pass / Fail
Lead		<232> <233> y ICP-MS	10 ppb	NMT 1,000 ppb	< LOQ	PASS
Mercury		<232> <233> y ICP-MS	5 ppb	NMT 500 ppb	< LOQ	PASS
Cadmium		<232> <233> y ICP-MS	10 ppb	NMT 300 ppb	< LOQ	PASS
Arsenic		<232> <233> y ICP-MS	10 ppb	NMT 1,500 ppb	< LOQ	PASS
Nickel	Nickel USP <232> <233> by ICP-MS		10 ppb	NMT 200,000 ppb	< LOQ	PASS
			RESIDU	JAL SOLVENTS ASSAY		
Analysis		Test Method	LOQ	Specifications	Test Results	Pass / Fail
1,1-Dichloroethe	ene	USP <467> by GC-MS	0.020 ppm	NMT 8 ppm	< LOQ	PASS
1,1,1-Trichloroeth	iane	USP <467> by GC-MS	3.75 ppm	NMT 1,500 ppm	< LOQ	PASS
1,2-Dichloroetha	1,2-Dichloroethane		0.013 ppm	NMT 5 ppm	< LOQ	PASS
Benzene	Benzene USP <467 by GC-M		0.005 ppm	NMT 2 ppm	< LOQ	PASS
Carbon tetrachlor	Carbon tetrachloride		0.010 ppm	NMT 4 ppm	< LOQ	PASS
1,2-dichloroethene	e (E,Z)	USP <467> by GC-MS	4.675 ppm	NMT 1870 ppm	< LOQ	PASS
1,2-Dimethoxyeth	iane	USP <467> by GC-MS	0.25 ppm	NMT 100 ppm	< LOQ	PASS
	1,2,3,4- USP <467> tetrahydronapthalene by GC-MS		0.25 ppm	NMT 100 ppm	< LOQ	PASS
1,4-Dioxane		USP <467> by GC-MS	0.95 ppm	NMT 380 ppm	< LOQ	PASS
2-Hexanone USP <		USP <467> by GC-MS	0.125 ppm	NMT 50 ppm	< LOQ	PASS
4-methyl-2-pentanone		USP <467> by GC-MS	12.5 ppm	NMT 4,500 ppm	< LOQ	PASS
Acetonitrile USP <467> by GC-MS		USP <467> by GC-MS	1.025 ppm	NMT 410 ppm	< LOQ	PASS
Chlorobenzene	9	USP <467> by GC-MS	0.9 ppm	NMT 360 ppm	< LOQ	PASS
Chloroform		USP <467> by GC-MS	0.15 ppm	NMT 60 ppm	< LOQ	PASS
Cumene		USP <467> by GC-MS	0.175 ppm	NMT 70 ppm	< LOQ	PASS

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		RESIDU	AL SOLVENTS ASSAY		
Analysis	Test Method	LOQ	Specifications	Test Results	Pass / Fail
Cyclohexane	USP <467> by GC-MS	9.7 ppm	NMT 3,880 ppm	< LOQ	PASS
Dichloromethane	USP <467> by GC-MS	1.5 ppm	NMT 600 ppm	< LOQ	PASS
Ethylbenzene	USP <467> by GC-MS	5.425 ppm	NMT 2,170 ppm	< LOQ	PASS
Hexane, n-	USP <467> by GC-MS	0.725 ppm	NMT 290 ppm	< LOQ	PASS
Methanol	USP <467> by GC-MS	7.5 ppm	NMT 3,000 ppm	< LOQ	PASS
Methylcyclohexane	USP <467> by GC-MS	2.95 ppm	NMT 1,180 ppm	< LOQ	PASS
Nitromethane	USP <467> by GC-MS	0.125 ppm	NMT 50 ppm	< LOQ	PASS
Pyridine	USP <467> by GC-MS	0.50 ppm	NMT 200 ppm	< LOQ	PASS
Tetrahydrofuran	USP <467> by GC-MS	1.8 ppm	NMT 720 ppm	< LOQ	PASS
Toluene	USP <467> by GC-MS	2.225 ppm	NMT 890 ppm	< LOQ	PASS
Trichloroethene	USP <467> by GC-MS	0.20 ppm	NMT 80 ppm	< LOQ	PASS
Xylene, m-	USP <467> by GC-MS	108.5 ppm	NMT 2,170 ppm	< LOQ	PASS
Xylene, o-	USP <467> by GC-MS	5.425 ppm	NMT 2,170 ppm	< LOQ	PASS
Xylene, p-	USP <467> by GC-MS	5.425 ppm	NMT 2,170 ppm	< LOQ	PASS
1-Butanol	USP <467> by GC-MS	12.5 ppm	NMT 5,000 ppm	< LOQ	PASS
1-Pentanol	USP <467> by GC-MS	12.5 ppm	NMT 5,000 ppm	< LOQ	PASS
1-Propanol	USP <467> by GC-MS	12.5 ppm	NMT 5,000 ppm	< LOQ	PASS
2-Butanol	USP <467> by GC-MS	12.5 ppm	NMT 5,000 ppm	< LOQ	PASS
2-Butanone	USP <467> by GC-MS	12.5 ppm	NMT 5,000 ppm	< LOQ	PASS
2-methyl-1-propanol	USP <467> by GC-MS	12.5 ppm	NMT 5,000 ppm	< LOQ	PASS
2-Propanol	USP <467> by GC-MS	12.5 ppm	NMT 5,000 ppm	< LOQ	PASS
3-methyl-1-butanol	USP <467> by GC-MS	12.5 ppm	NMT 5,000 ppm	< LOQ	PASS
Acetone	USP <467> by GC-MS	12.5 ppm	NMT 5,000 ppm	< LOQ	PASS
Anisole	USP <467> by GC-MS	12.5 ppm	NMT 5,000 ppm	< LOQ	PASS
Butyl acetate	USP <467> by GC-MS	12.5 ppm	NMT 5,000 ppm	< LOQ	PASS
Ethanol	USP <467> by GC-MS	12.5 ppm	NMT 5,000 ppm	< LOQ	PASS
Ethyl acetate	USP <467> by GC-MS	12.5 ppm	NMT 5,000 ppm	< LOQ	PASS
Ethyl ether	USP <467> by GC-MS	12.5 ppm	NMT 5,000 ppm	< LOQ	PASS
Ethyl formate	USP <467> by GC-MS	12.5 ppm	NMT 5,000 ppm	< LOQ	PASS
Heptane, n-	USP <467> by GC-MS	12.5 ppm	NMT 5,000 ppm	< LOQ	PASS

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RESIDUAL SOLVENTS ASSAY					
Analysis	Test Method	LOQ	Specifications	Test Results	Pass / Fail
Isobutyl acetate	USP <467> by GC-MS	12.5 ppm	NMT 5,000 ppm	< LOQ	PASS
Isopropyl acetate	USP <467> by GC-MS	12.5 ppm	NMT 5,000 ppm	< LOQ	PASS
Methyl acetate	USP <467> by GC-MS	12.5 ppm	NMT 5,000 ppm	< LOQ	PASS
N,N-Dimethylsulfoxide	USP <467> by GC-MS	12.5 ppm	NMT 5,000 ppm	< LOQ	PASS
Pentane, n-	USP <467> by GC-MS	12.5 ppm	NMT 5,000 ppm	< LOQ	PASS
Propyl acetate	USP <467> by GC-MS	12.5 ppm	NMT 5,000 ppm	< LOQ	PASS
t-Butyl Methyl Ether	USP <467> by GC-MS	12.5 ppm	NMT 5,000 ppm	< LOQ	PASS
Butane, iso-	USP <467> by GC-MS	12.5 ppm	NMT 5,000 ppm	< LOQ	PASS
Butane, n-	USP <467> by GC-MS	12.5 ppm	NMT 5,000 ppm	< LOQ	PASS
Propane	USP <467> by GC-MS	12.5 ppm	NMT 5,000 ppm	< LOQ	PASS
TESTING	FACILITY INFORMA	TION	SAMI	PLE INFORMATION	
Couté Labourtouise			Conté Comple ID: 220002		

Santé Laboratories 8201 East Riverside Drive, STE 650 Austin, Texas 78744 USA

Santé Sample ID: 220963 Receipt Date: 03/02/2022 / 01:41 PM CST / M. Cardona

Receipt Condition: Good Analysis Start Date: 03/07/2022

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 and Chromium specification according to oral drug products per USP <232>. Microbiological limits according to specifications defined by AHPA for botanical extracts. ©2020 Santé Laboratories, LLC – All Rights Reserved

Version 03/14/2022 00

Effective Date Initial Release

VERSION HISTORY

Summary of Changes

	REVIEWED AND APPROVED BY					
	Brian Sloat	14 March 2022 7:46:04 AM PDT	DD-MM-YY			
Brian Sloa Chief Scier Santé Labo	ntific Officer / Quality Manager	Date				

PRODUCT SAMPLE / IMAGE



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