

STATUS: RELEASED REVISION: 00 DATE: 03/14/2023

 Analysis ID No.
 230680

 TDA License No.
 2020002

 ISO/IEC No.
 1055838

 Purchase Order:
 20230164

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CUSTOMER INFORMATION	SAMPLE INFORMATION
Company Name:	Submitted Sample Name:
Happy Hippo, LLC	SOURAPPLE 60MG
Address:	Submitted Sample Lot:
1553 N Milwaukee St STE 131, Boise, ID 83704	MIT3003
Phone Number:	Submitted Sample Description:
$\times$	Light Yellow Liquid in Retail Packaging; Stored at Rm Temp
Contact Name / Email:	Submitted Sample Product Type / Matrix:
	Kratom Extract / Beverage

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 mg/mL: Report Only*	0.507 w/w% 5.071 mg/g 5.294 mg/mL	Results Reported
Paynantheine	UHPLC-DAD	0.01 w/w%	w/w%: Report Only mg/g: Report Only mg/mL: Report Only*	0.067 w/w% 0.675 mg/g 0.704 mg/mL	Results Reported
Speciogynine	UHPLC-DAD	0.01 w/w%	w/w%: Report Only mg/g: Report Only mg/mL: Report Only*	0.051 w/w% 0.513 mg/g 0.536 mg/mL	Results Reported
Speciociliatine	UHPLC-DAD	0.01 w/w%	w/w%: Report Only mg/g: Report Only mg/mL: Report Only*	0.026 w/w% 0.260 mg/g 0.272 mg/mL	Results Reported
7-OH-Mitragynine	UHPLC-DAD	0.01 w/w%	w/w%: Report Only mg/g: Report Only mg/mL: Report Only* % of Total Alkaloids: NMT 2%	< 0.010 w/w%	PASS
Mitraphylline	UHPLC-DAD	0.01 w/w%	w/w%: Report Only mg/g: Report Only mg/mL: Report Only*	< 0.010 w/w%	Results Reported
Isorhynchophylline	UHPLC-DAD	0.01 w/w%	w/w%: Report Only mg/g: Report Only mg/mL: Report Only*	< 0.010 w/w%	Results Reported
Corynoxine	UHPLC-DAD	0.01 w/w%	w/w%: Report Only mg/g: Report Only mg/mL: Report Only*	< 0.010 w/w%	Results Reported
Total Alkaloids	UHPLC-DAD	0.01 w/w%	w/w%: Report Only mg/g: Report Only mg/mL: Report Only*	0.652 w/w% 6.520 mg/g 6.807 mg/mL	Results Reported

	MICROBIOLOGICAL ASSAY					
Analysis	Test Method	LOQ	Specifications	Test Results	Pass / Fail	
Total Aerobic Plate Count (TAPC)	Isolation Agar	10 CFU/gm	NMT 10,000 CFU/gm	<loq< td=""><td>PASS</td></loq<>	PASS	
Total Yeast & Mold (TYM)	Isolation Agar	10 CFU/gm	NMT 1,000 CFU/gm	< LOQ	PASS	
Coliforms	Isolation Agar	10 CFU/gm	NMT 100 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/10 gm	Absent in 25 gm	Absent	PASS	



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	HEAVY METALS ASSAY					
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	
Arsenic	USP <232> <233> by ICP-MS	10 ppb	NMT 1,500 ppb	< LOQ	PASS	
Cadmium	USP <232> <233> by ICP-MS	10 ppb	NMT 300 ppb	< LOQ	PASS	
Nickel	USP <232> <233> by ICP-MS	50 ppb	NMT 200,000 ppb	< LOQ	PASS	

RESIDUAL SOLVENTS ASSAY					
Analysis	Test Method	LOQ	Specifications	Test Results	Pass / Fail
1,1-Dichloroethene	USP <467> by GC-MS	0.020 ppm	NMT 8 ppm	< LOQ	PASS
1,1,1-Trichloroethane	USP <467> by GC-MS	3.75 ppm	NMT 1,500 ppm	< LOQ	PASS
1,2-Dichloroethane	USP <467> by GC-MS	0.013 ppm	NMT 5 ppm	< LOQ	PASS
Benzene	USP <467> by GC-MS	0.005 ppm	NMT 2 ppm	< LOQ	PASS
Carbon tetrachloride	USP <467> by GC-MS	0.010 ppm	NMT 4 ppm	< LOQ	PASS
1,2-dichloroethene (E,Z)	USP <467> by GC-MS	4.675 ppm	NMT 1870 ppm	< LOQ	PASS
1,2-Dimethoxyethane	USP <467> by GC-MS	0.25 ppm	NMT 100 ppm	< LOQ	PASS
1,2,3,4- tetrahydronapthalene	USP <467> 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 <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	1.025 ppm	NMT 410 ppm	< LOQ	PASS
Chlorobenzene	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
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

Santé Laboratories, LLC - 8201 East Riverside Drive, STE 650, Austin, Texas 78744 USA Email: Testing@santelabs.com - Telephone: 512-309-5830 - Website: www.santelabs.com



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RESIDUAL SOLVENTS ASSAY					
Test Method	LOQ	Specifications	Test Results	Pass / Fail	
USP <467> by GC-MS	7.5 ppm	NMT 3,000 ppm	< LOQ	PASS	
USP <467> by GC-MS	2.95 ppm	NMT 1,180 ppm	< LOQ	PASS	
USP <467> by GC-MS	0.125 ppm	NMT 50 ppm	< LOQ	PASS	
USP <467> by GC-MS	0.50 ppm	NMT 200 ppm	< LOQ	PASS	
USP <467> by GC-MS	1.8 ppm	NMT 720 ppm	< LOQ	PASS	
USP <467> by GC-MS	2.225 ppm	NMT 890 ppm	< LOQ	PASS	
USP <467> by GC-MS	0.20 ppm	NMT 80 ppm	< LOQ	PASS	
USP <467> by GC-MS	108.5 ppm	NMT 2,170 ppm	< LOQ	PASS	
USP <467> by GC-MS	5.425 ppm	NMT 2,170 ppm	< LOQ	PASS	
USP <467> by GC-MS	5.425 ppm	NMT 2,170 ppm	< LOQ	PASS	
USP <467> by GC-MS	12.5 ppm	NMT 5,000 ppm	< LOQ	PASS	
USP <467> by GC-MS	12.5 ppm	NMT 5,000 ppm	< LOQ	PASS	
USP <467> by GC-MS	12.5 ppm	NMT 5,000 ppm	< LOQ	PASS	
USP <467> by GC-MS	12.5 ppm	NMT 5,000 ppm	< LOQ	PASS	
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USP <467> by GC-MS	12.5 ppm	NMT 5,000 ppm	< LOQ	PASS	
USP <467> by GC-MS	12.5 ppm	NMT 5,000 ppm	< LOQ	PASS	
USP <467> by GC-MS	12.5 ppm	NMT 5,000 ppm	< LOQ	PASS	
USP <467> by GC-MS	12.5 ppm	NMT 5,000 ppm	< LOQ	PASS	
USP <467> by GC-MS	12.5 ppm	NMT 5,000 ppm	< LOQ	PASS	
USP <467> by GC-MS	12.5 ppm	NMT 5,000 ppm	< LOQ	PASS	
USP <467> by GC-MS	12.5 ppm	NMT 5,000 ppm	< LOQ	PASS	
USP <467> by GC-MS	12.5 ppm	NMT 5,000 ppm	< LOQ	PASS	
USP <467> by GC-MS	12.5 ppm	NMT 5,000 ppm	< L0Q	PASS	
	USP <467> by GC-MS  USP <467> by GC-MS	Test Method         LOQ           USP <467> by GC-MS         7.5 ppm           USP <467> by GC-MS         2.95 ppm           USP <467> by GC-MS         0.125 ppm           USP <467> by GC-MS         0.50 ppm           USP <467> by GC-MS         1.8 ppm           USP <467> by GC-MS         2.225 ppm           USP <467> by GC-MS         0.20 ppm           USP <467> by GC-MS         108.5 ppm           USP <467> by GC-MS         5.425 ppm           USP <467> by GC-MS         12.5 ppm           USP <467	Test Method         LOQ         Specifications           USP <467>by GC-MS         7.5 ppm         NMT 3,000 ppm           USP <467>by GC-MS         2.95 ppm         NMT 1,180 ppm           USP <467>by GC-MS         0.125 ppm         NMT 50 ppm           USP <467>by GC-MS         0.50 ppm         NMT 200 ppm           USP <467>by GC-MS         1.8 ppm         NMT 890 ppm           USP <467>by GC-MS         2.225 ppm         NMT 890 ppm           USP <467>by GC-MS         0.20 ppm         NMT 80 ppm           USP <467>by GC-MS         108.5 ppm         NMT 2,170 ppm           USP <467>by GC-MS         5.425 ppm         NMT 2,170 ppm           USP <467>by GC-MS         5.425 ppm         NMT 2,170 ppm           USP <467>by GC-MS         12.5 ppm         NMT 5,000 ppm           USP <467>by GC-MS         12.5 ppm<	Test Method         LOQ         Specifications         Test Results           USP <467> by GC-MS         7.5 ppm         NMT 3,000 ppm         < LOQ	



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Analysis	Test Method	LOQ	Specifications	Test Results	Pass / Fail
Heptane, n-	USP <467> by GC-MS	12.5 ppm	NMT 5,000 ppm	< LOQ	PASS
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 INFORMATION	SAMPLE INFORMATION
Santé Laboratories	Santé Sample ID: 230680
8201 East Riverside Drive, STE 650	Receipt Date: 03/06/2023 / 09:25 AM CST / K. Cobbett
Austin, Texas 78744 USA	Receipt Condition: Good Analysis Start Date: 03/06/2023

#### 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 limits according to specifications defined by AHPA for botanical extracts. \* Density: 1.044 g/mL, this is based on the average of five (5) measurements.

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	VERSION HISTORY				
Version	/ersion Effective Date Summary of Changes				
00	03/14/2023	Initial Release			



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# PRODUCT SAMPLE / IMAGE TO THE PRODUCT SAMPLE / IMAGE TO THE

# REVIEWED AND APPROVED BY 14 March 2023 | 12:50:17 PM PDT Tyvonne Rivera Date Date Date Date Date Date