

STATUS: RELEASED REVISION: 00

DATE: 03/15/2023

 Analysis ID No.
 230688

 TDA License No.
 2020002

 ISO/IEC No.
 1055838

 Purchase Order:
 20230168

 Page No.
 Page 1 of 5

CUSTOMER INFORMATION	SAMPLE INFORMATION
Company Name:	Submitted Sample Name:
Happy Hippo, LLC PINA COLADA 12ML 2/13/23	
Address:	Submitted Sample Lot:
1553 N Milwaukee St STE 131, Boise, ID 83704	SO-01839 0206-01-006 2/13/25
Phone Number:	Submitted Sample Description:
$\times$	Liquid in Retail Packaging; Stored at Rm Temp
Contact Name / Email:	Submitted Sample Product Type / Matrix:
$\times \times $	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*	0.385 w/w% 3.849 mg/g 4.246 mg/mL	Results Reported
Paynantheine	UHPLC-DAD	0.01 w/w%	w/w%: Report Only mg/g: Report Only mg/mL: Report Only*	0.085 w/w% 0.847 mg/g 0.934 mg/mL	Results Reported
Speciogynine	UHPLC-DAD	0.01 w/w%	w/w%: Report Only mg/g: Report Only mg/mL: Report Only*	0.072 w/w% 0.716 mg/g 0.790 mg/mL	Results Reported
Speciociliatine	UHPLC-DAD	0.01 w/w%	w/w%: Report Only mg/g: Report Only mg/mL: Report Only*	0.078 w/w% 0.778 mg/g 0.858 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*	0.619 w/w% 6.191 mg/g 6.828 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	PASS	
Total Yeast & Mold (TYM)	Isolation Agar	10 CFU/gm	NMT 1,000 CFU/gm	< LOQ	PASS	
Coliforms	Coliforms Isolation Agar		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/25 gm	Absent in 25 gm	Absent	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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**HEAVY METALS ASSAY** 

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 ISO/IEC No.
 1055838

 Purchase Order:
 20230168

 Page No.
 Page 2 of 5

		HEA	VY METALS ASSAY		
Test	Method	LOQ	Specifications	Test Results	Pass / Fail
USP <232> <233> by ICP-MS		10 ppn	NMT 1,000 ppb	< LOQ	PASS
		5 ppb	NMT 500 ppb	< LOQ	PASS
		10 ppb	NMT 1,500 ppb	< LOQ	PASS
		10 ppb	NMT 300 ppb	< LOQ	PASS
		50 ppb	NMT 200,000	< LOQ	PASS
		RESIDU	JAL SOLVENTS ASSAY		
s	Test Method	LOQ	Specifications	Test Results	Pass / Fail
thene	USP <467> by GC-MS	0.020 ppm	NMT 8 ppm	< LOQ	PASS
ethane	USP <467> by GC-MS	3.75 ppm	NMT 1,500 ppm	< LOQ	PASS
ethane	USP <467> by GC-MS	0.013 ppm	NMT 5 ppm	< LOQ	PASS
5	USP <467> by GC-MS	0.005 ppm	NMT 2 ppm	< LOQ	PASS
Carbon tetrachloride		0.010 ppm	NMT 4 ppm	< LOQ	PASS
,		4.675 ppm	NMT 1870 ppm	< LOQ	PASS
1,2-Dimethoxyethane		0.25 ppm	NMT 100 ppm	< LOQ	PASS
1,2,3,4- tetrahydronapthalene		0.25 ppm	NMT 100 ppm	< LOQ	PASS
ne	by GC-MS	0.95 ppm	NMT 380 ppm	< LOQ	PASS
ne	by GC-MS	0.125 ppm	NMT 50 ppm	< LOQ	PASS
-2- 1e	USP <467> by GC-MS	12.5 ppm	NMT 4,500 ppm	< LOQ	PASS
ile	by GC-MS	1.025 ppm	NMT 410 ppm	< LOQ	PASS
ene	by GC-MS	0.9 ppm	NMT 360 ppm	< LOQ	PASS
Chlorotorm		0.15 ppm	NMT 60 ppm	< LOQ	PASS
Cumene		0.175 ppm	NMT 70 ppm	< LOQ	PASS
Cyclohexane		9.7 ppm	NMT 3,880 ppm	< LOQ	PASS
Dichloromethane		1.5 ppm	NMT 600 ppm	< LOQ	PASS
Ethylbenzene USP <467> by GC-MS		5.425 ppm	NMT 2,170 ppm	< LOQ	PASS
n-	USP <467> by GC-MS	0.725 ppm	NMT 290 ppm	< LOQ	PASS
	USP <: by USP <: by USP <: by USP <: by USP <: by USP <: c by uSP <: c b uSP <: c b uSP <: c b uSP <: c b uSP <: c uSP <: c uS	by ICP-MS           USP <232> <233> by ICP-MS           USP <467> by GC-MS           eethane         USP <467> by GC-MS           USP <467> by GC-MS           ethane         USP <467> by GC-MS           hloride         USP <467> by GC-MS           ethane         USP <467> by GC-MS           ethalene         USP <467> by GC-MS	Test MethodLOQUSP <232> <233> by ICP-MS10 ppnUSP <232> <233> by ICP-MS10 ppbUSP <232> <233> by ICP-MS10 ppbUSP <232> <233> by ICP-MS10 ppbUSP <232> <233> by ICP-MS50 ppbUSP <232> <233> by ICP-MS0.020 ppmUSP <232> <233> by ICP-MS0.020 ppmuSP <467> by GC-MS0.013 ppmethaneUSP <467> by GC-MS0.013 ppmethaneUSP <467> by GC-MS0.005 ppmethaneUSP <467> by GC-MS0.010 ppmethaneUSP <467> by GC-MS0.010 ppmethaneUSP <467> by GC-MS0.010 ppmethaneUSP <467> by GC-MS0.010 ppmethaneUSP <467> by GC-MS0.25 ppmhlorideUSP <467> by GC-MS0.25 ppmethaneUSP <467> by GC-MS0.125 ppmethaneUSP <467> by GC-MS0.125 ppmethaneUSP <467> by GC-MS0.125 ppmethaneUSP <467> by GC-MS0.15 ppmethaneUSP <467> by GC-MS0.15 ppmeneUSP <467> by GC-MS0.15 ppm	Test MethodLOQSpecificationsUSP <232> <233> by ICP-MS10 ppnNMT 1,000 ppbUSP <232> <233> by ICP-MS5 ppbNMT 500 ppbUSP <232> <233> by ICP-MS10 ppbNMT 1,500 ppbUSP <232> <233> by ICP-MS10 ppbNMT 300 ppbUSP <232> <233> by ICP-MS50 ppbNMT 200,000RESIDUAL SOLVENTS ASSAYset MethodLOQSpecificationsUSP <467> by GC-MS0.020 ppmNMT 8 ppmUSP <467> by GC-MS0.013 ppmNMT 1,500 ppmNMT 2 ppmUSP <467> by GC-MS0.010 ppmNMT 2 ppmUSP <467> by GC-MS0.010 ppmNMT 2 ppmNMT 1,00 ppmUSP <467> by GC-MS0.010 ppmNMT 1870 ppmUSP <467> by GC-MS0.25 ppmNMT 100 ppmUSP <467> by GC-MS0.25 ppmNMT 100 ppmUSP <467> by GC-MS0.125 ppmNMT 4,500 ppmUSP <467> by GC-MS0.125 ppmNMT 4,500 ppmNMT 2,500 ppmNMT 4,500 ppmUSP <467> by GC-MS0.125 ppmNMT 4,500 ppmUSP <467> by GC-MS0.125 ppmNMT 4,500 ppmP	Test MethodLOQSpecificationsTest ResultsUSP <232 > <233> by ICP-MS10 ppnNMT 1,000 ppb< LOQ

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 Page No.
 Page 3 of 5

RESIDUAL SOLVENTS ASSAY					
Analysis	Test Method	LOQ	Specifications	Test Results	Pass / Fail
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

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Analysis ID No. 230688 TDA License No. 2020002 1055838 20230168 Page No. Page 4 of 5

	RESIDUAL SOLVENTS ASSAY				
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	ACILITY INFORM	TESTING FACILITY INFORMATION			

TESTING FACILITY INFORMATION	SAMPLE INFORMATION
Santé Laboratories	Santé Sample ID: 230688
8201 East Riverside Drive, STE 650	Receipt Date: 03/07/2023 / 09:25 AM CST / M. Husain
Austin, Texas 78744 USA	Receipt Condition: Good Analysis Start Date: 03/07/2023

## 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: 1.103 g/mL, this is based on the average of five (5) measurements.

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VERSION HISTORY				
Version Effective Date Summary of Changes				
00	03/15/2023	Initial Release		

