



## Certificate of Analysis

### Compliance Test

Client Information:

**Happy Hippo**  
2145 E Pine Ave  
Meridian, ID 83642

Batch # 25111120MITCL  
Batch Date: 2025-11-11  
Extracted From: Kratom

Cultivation Date: 0000-00-00  
Production Date: 0000-00-00

Order # GUM251112-020001  
Order Date: 2025-11-12  
Sample # AAHF284

Sampling Date: 2025-11-13  
Lab Batch Date: 2025-11-13  
Completion Date: 2025-12-01

Serving Number: 5.00000 Initial Gross Weight: 31.500 g

Number of Units: 1  
Net Weight per Unit: 27500.000 mg  
Sampling Method: MSP 7.3.1



**Kratom Tested**

**Heavy Metals Tested**

**Mycotoxins Passed**

**Pesticides Passed**

**Residual Solvents Passed**

**Pathogenic Passed**

**Microbiology Petrifilm Passed**

**Kratom Alkaloids**  
Specimen Weight: 1539.500 mg

**Tested**  
SOP 13.062 Kratom Alkaloids (LCMS)

Pieces For Panel: 5

Analyte	LOQ (%)	Action Level (mg/g)	Result (mg/g)	(%)
Mitragynine	0.0146	100	4.7440	0.4744
7-Hydroxy Mitragynine	0.0146	0.4	<LOQ	<LOQ
Corynoxine B	0.0146	100	<LOQ	<LOQ
Isorhynchophylline	0.0146	100	<LOQ	<LOQ
Mitrephylline	0.0146	100	<LOQ	<LOQ
Paynantheine	0.0146	100	<LOQ	<LOQ
Speciociliatine	0.0146	100	<LOQ	<LOQ
Speciogynine	0.0146	100	<LOQ	<LOQ

**Total Detectable Alkaloids**

<b>Total Kratom Alkaloids Per Package</b>	<b>0.474%</b>	<b>130.35mg</b>	<b>Total Kratom Alkaloids Per Serving</b>	<b>0.474%</b>	<b>26.07mg</b>
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Prep. By: 1276 Date: 2025-11-14 18:53:55 Analyzed By: 1263 Date: 2025-11-14 14:55:31  
Reviewed By: 1234 Date: 2025-12-01 11:49:14 Lab Batch #: AAHF284-412 Date: 2025-12-01 11:49:14

**Kratom Heavy Metals**  
Specimen Weight: 254.400 mg  
Dilution Factor: 196.541

**Tested**  
SOP13.051 (ICP-3; icp-1)

Analyte	LOD (ppb)	LOQ (ppb)	Action Level (ppb)	Result (ppb)	Analyte	LOD (ppb)	LOQ (ppb)	Action Level (ppb)	Result (ppb)
Arsenic (As)	.019	100	1500	<LOQ	Manganese (Mn)	.04694	1000	900000	<LOQ
Cadmium (Cd)	.004	100	300	<LOQ	Mercury (Hg)	.010	100	500	<LOQ
Lead (Pb)	.044	100	1000	<LOQ	Nickel (Ni)	.149	250	200000	<LOQ

Prep. By: 1204 Date: 2025-11-14 17:16:26 Analyzed By: 1204 Date: 2025-11-16 17:16:26  
Reviewed By: 1142 Date: 2025-11-17 16:03:14 Lab Batch #: AAHF284-413 Date: 2025-11-17 16:03:14

Aixa Sun Lab Director/Principal Scientist  
D.H.Sc., M.Sc., B.Sc., MT (AAB)

Definitions and Abbreviations used in this report: (mg/ml) = Milligrams per Milliliter, LOQ = Limit of Quantitation, LOD = Limit of Detection, Dilution = Dilution Factor, (ppb) = Parts per Billion, (%) = Percent, (cfu/g) = Colony Forming Unit per Gram, (µg/g) = Microgram per Gram, (ppm) = Parts per Million, (µg/g) = (µg/g), (aw) = Water Activity, (mg/Kg) = Milligram per Kilogram. ACS uses simple acceptance criteria. Passed - Analyte/microbe is not detected or is at the level below the action limit per FL rule 64ER20-39, 5K-4.036, 5K-4.034. Failed - Analyte/microbe is at the level that equal or above the action limit per FL rule 64ER20-39, 5K-4.036, 5K-4.034. The results apply to the sample as received.

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Production Date: 0000-00-00

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Order Date: 2025-11-12  
Sample # AAHF284

Sampling Date: 2025-11-13  
Lab Batch Date: 2025-11-13  
Completion Date: 2025-12-01

Serving Number: 5.00000

Initial Gross Weight: 31.500 g

Number of Units: 1  
Net Weight per Unit: 27500.000 mg  
Sampling Method: MSP 7.3.1

**Residual Solvents – FL** Passed  
Specimen Weight: 17.200 mg SOP13.039 (GCMS-HS)  
Dilution Factor: 1.000

Analyte	LOD (ppm)	LOQ (ppm)	Action Level (ppm)	Result (ppm)	Analyte	LOD (ppm)	LOQ (ppm)	Action Level (ppm)	Result (ppm)
1,1-Dichloroethene	0.009	0.132	8	<LOQ	Heptane	0.001	8	5000	<LOQ
1,2-Dichloroethane	0.000	0.032	2	<LOQ	Hexane	0.068	0.8	250	<LOQ
Acetone	0.015	12	750	<LOQ	Isopropyl alcohol	0.005	8	500	<LOQ
Acetonitrile	0.060	0.96	60	<LOQ	Methanol	0.001	4	250	<LOQ
Benzene	0.000	0.016	1	<LOQ	Methylene chloride	0.003	2	125	<LOQ
Butanes	0.417	13.32	5000	<LOQ	Pentane	0.037	12	750	<LOQ
Chloroform	0.000	0.032	2	<LOQ	Propane	0.031	26.668	5000	<LOQ
Ethanol	0.002	16	NA	25.6	Toluene	0.001	2.4	150	<LOQ
Ethyl Acetate	0.001	6.4	400	<LOQ	Total Xylenes	0.000	7.2	150	<LOQ
Ethyl Ether	0.005	8	500	<LOQ	Trichloroethylene	0.001	0.4	25	<LOQ
Ethylene Oxide	0.004	0.32	5	<LOQ					

Prep. By: 1208 Date: 2025-11-13 16:45:39 Analyzed By: 1208 Date: 2025-11-13 16:45:39  
Reviewed By: 1208 Date: 2025-11-14 11:48:20 Lab Batch #: AAHF284-55 Date: 2025-11-14 11:48:20

**Mycotoxins** Passed  
Specimen Weight: 609.600 mg SOP13.007 (LCMS/GCMS)  
Dilution Factor: 2.460

Analyte	LOD (ppb)	LOQ (ppb)	Action Level (ppb)	Result (ppb)	Analyte	LOD (ppb)	LOQ (ppb)	Action Level (ppb)	Result (ppb)
Aflatoxin B1	3.0400E-1	6	20	<LOQ	Aflatoxin G2	2.7100E-1	6	20	<LOQ
Aflatoxin B2	7.7000E-2	6	20	<LOQ	Ochratoxin A	7.5400E-1	3.8	20	<LOQ
Aflatoxin G1	3.0400E-1	6	20	<LOQ					

Prep. By: 1256 Date: 2025-11-14 17:39:59 Analyzed By: 1256 Date: 2025-11-14 17:39:59  
Reviewed By: 1010 Date: 2025-11-17 11:58:10 Lab Batch #: AAHF284-165 Date: 2025-11-17 11:58:10

**Pathogenic SE (Microarray)** Passed  
Specimen Weight: 1029.400 mg SOP13.019 (Micro Array)  
Dilution Factor: 1.000

Analyte	Action Level (cfu/g)	Result (cfu/g)	Analyte	Action Level (cfu/g)	Result (cfu/g)
E. Coli	1	Absence in 1g	Salmonella	1	Absence in 1g

Prep. By: 1161 Date: 2025-11-15 10:00:12 Analyzed By: 1161 Date: 2025-11-15 10:00:12  
Reviewed By: 1225 Date: 2025-11-16 11:39:47 Lab Batch #: AAHF284-445 Date: 2025-11-16 11:39:47

*Aixia Sun*  
Aixia Sun Lab Director/Principal Scientist  
D.H.Sc., M.Sc., B.Sc., MT (AAB)

Definitions are found on page 1

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Production Date: 0000-00-00

Order # GUM251112-020001  
Order Date: 2025-11-12  
Sample # AAHF284

Sampling Date: 2025-11-13  
Lab Batch Date: 2025-11-13  
Completion Date: 2025-12-01

Serving Number: 5.00000

Initial Gross Weight: 31.500 g

Number of Units: 1  
Net Weight per Unit: 27500.000 mg  
Sampling Method: MSP 7.3.1



### Microbiology ACEC (Petrifilm)

Specimen Weight: 1002.400 mg

**Passed**  
SOP13.003 (Petrifilm)

Dilution Factor: 1.000

Analyte	LOQ (cfu/g)	Action Level (cfu/g)	Result (cfu/g)	Analyte	LOQ (cfu/g)	Action Level (cfu/g)	Result (cfu/g)
Aerobic Bacteria	20	10000	<20	Yeast/Mold	20	1000	<20
Coliform	20	100	<10				

Prep. By: 1161

Date: 2025-11-14 10:47:58

Analyzed By: 1161

Date: 2025-11-14 10:47:58

Reviewed By: 1204

Date: 2025-11-17 11:04:57

Lab Batch #: AAHF284-443

Date: 2025-11-17 11:04:57

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Extracted From: Kratom

Cultivation Date: 0000-00-00  
Production Date: 0000-00-00

Order # GUM251112-020001  
Order Date: 2025-11-12  
Sample # AAHF284

Sampling Date: 2025-11-13  
Lab Batch Date: 2025-11-13  
Completion Date: 2025-12-01

Serving Number: 5.00000

Initial Gross Weight: 31.500 g

Number of Units: 1  
Net Weight per Unit: 27500.000 mg  
Sampling Method: MSP 7.3.1

**Pesticides**  
Specimen Weight: 609.600 mg  
Dilution Factor: 2.460

**Passed**  
SOP13.007 (LCMS/GCMS)

Analyte	LOD (ppb)	LOQ (ppb)	Action Level (ppb)	Result (ppb)	Analyte	LOD (ppb)	LOQ (ppb)	Action Level (ppb)	Result (ppb)
Abamectin	3.9900E-1	23.3	300	<LOQ	Fludioxonil	3.6000E-1	24.8	3000	<LOQ
Acephate	1.4100E-1	24.8	3000	<LOQ	Hexythiazox	1.1300E-1	24.8	2000	<LOQ
Acequinocyl	2.1780E+0	24.8	2000	<LOQ	Imazalil	2.5800E-1	24.8	100	<LOQ
Acetamiprid	1.4000E-1	24.8	3000	<LOQ	Imidacloprid	4.0200E-1	24.8	3000	<LOQ
Aldicarb	2.0300E-1	24.8	100	<LOQ	Kresoxim Methyl	1.8200E-1	24.8	1000	<LOQ
Azoxystrobin	1.8800E-1	24.8	3000	<LOQ	Malathion	2.2300E-1	24.8	2000	<LOQ
Bifenazate	8.6000E-2	24.8	3000	<LOQ	Metaxyl	2.7000E-1	24.8	3000	<LOQ
Bifenthrin	1.0000E-1	24.8	500	<LOQ	Methiocarb	1.1800E-1	24.8	100	<LOQ
Boscalid	5.9500E-1	24.8	3000	<LOQ	Methomyl	6.4000E-2	24.8	100	<LOQ
Captan	1.8500E+0	323	3000	<LOQ	methyl-Parathion	8.2000E-1	24.8	100	<LOQ
Carbaryl	1.2200E-1	24.8	500	<LOQ	Mevinphos	9.3000E-2	24.8	100	<LOQ
Carbofuran	8.6000E-2	24.8	100	<LOQ	Myclobutanil	5.7300E-1	24.8	3000	<LOQ
Chlorantraniliprole	8.4000E-2	24.8	3000	<LOQ	Naled	6.9000E-2	24.8	500	<LOQ
Chlordane	1.4100E+0	24.8	100	<LOQ	Oxamyl	4.1000E-2	24.8	500	<LOQ
Chlorfenapyr	1.5000E+0	24.8	100	<LOQ	Paclobutrazol	1.8600E-1	24.8	100	<LOQ
Chlormequat Chloride	2.0500E-1	24.8	3000	<LOQ	Pentachloronitrobenzene	2.2000E-1	24.8	200	<LOQ
Chlorpyrifos	1.0900E-1	24.8	100	<LOQ	Permethrin	6.2400E-1	24.8	1000	<LOQ
Clofentezine	2.1200E-1	24.8	500	<LOQ	Phosmet	1.2700E-1	24.8	200	<LOQ
Coumaphos	2.0600E-1	24.8	100	<LOQ	Piperonylbutoxide	1.4900E-1	24.8	3000	<LOQ
Cyfluthrin	9.8000E-1	24.8	1000	<LOQ	Prallethrin	1.4760E+0	24.8	400	<LOQ
Cypermethrin	9.8500E-1	24.8	1000	<LOQ	Propiconazole	2.9400E-1	24.8	1000	<LOQ
Daminozide	1.6550E+0	24.8	100	<LOQ	Propoxur	1.0000E-1	24.8	100	<LOQ
Diazinon	2.1200E-1	24.8	200	<LOQ	Pyrethrins	6.7000E-2	12.9	1000	<LOQ
Dichlorvos	1.1300E+0	24.8	100	<LOQ	Pyridaben	1.4000E-1	24.8	3000	<LOQ
Dimethoate	6.3000E-2	24.8	100	<LOQ	Spinetoram	4.2400E-1	24.8	3000	<LOQ
Dimethomorph	2.5810E+0	24.8	3000	<LOQ	Spinosad	2.8000E-2	24.8	3000	<LOQ
Ethoprophos	1.5100E-1	24.8	100	<LOQ	Spiromesifen	1.2000E-1	24.8	3000	<LOQ
Etofenprox	1.7200E-1	24.8	100	<LOQ	Spirotetramat	2.1100E-1	24.8	3000	<LOQ
Etoxazole	8.6600E-1	24.8	1500	<LOQ	Spiroxamine	5.3300E-1	24.8	100	<LOQ
Fenhexamid	5.8800E-1	24.8	3000	<LOQ	Tebuconazole	2.3000E-1	24.8	1000	<LOQ
Fenoxycarb	2.7400E-1	24.8	100	<LOQ	Thiacloprid	1.7000E-1	24.8	100	<LOQ
Fenpyroximate	1.9800E-1	24.8	2000	<LOQ	Thiamethoxam	1.7900E+2	24.8	1000	<LOQ
Fipronil	3.1700E-1	24.8	100	<LOQ	Trifloxystrobin	1.3400E-1	24.8	3000	<LOQ
Fonicamid	4.6600E-1	24.8	2000	<LOQ					

Prep. By: 1256 Date: 2025-11-14 17:39:59 Analyzed By: 1256 Date: 2025-11-14 17:39:59  
Reviewed By: 1010 Date: 2025-11-17 11:58:10 Lab Batch #: AAHF284-202 Date: 2025-11-17 11:58:10

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**7-Hydroxy Mitragynine at Dry Weight**  
Specimen Weight: 1539.500 mg  
Dilution Factor: 1000.000

Tested  
SOP 13.062 Kratom Alkaloids (LCMS)

Analyte	LOQ (%)	Action Level (ppm)	Result (ppm)	(%)
7-Hydroxy Mitragynine	0.0146	0.4	<LOQ	<LOQ
Prep. By: 1276	Date: 2025-11-14 18:53:55	Analyzed By: 1263	Date: 2025-11-14 14:55:31	
Reviewed By: 1234	Date: 2025-12-01 11:49:14	Lab Batch #: AAHF284-412	Date: 2025-12-01 11:49:14	

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