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721 Cortaro Dr.
Sun City Center, FL 33573
www.acslab.com
DEA No. RA0571996
FL License # CMTL-0003

5.5g Gummy - 20mg Mitragynine - Cherry Limeade
Sample Matrix: Kratom Edibles (Ingestion)

# Certificate of Analysis

Compliance Test

Client Information:
**Happy Hippo**
2145 E Pine Ave
Meridian, ID 83642

Batch # 26021920MITCL
Batch Date: 2026-02-19
Extracted From: Kratom

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

Order # MWG260225-020001
Order Date: 2026-02-25
Sample # AAHL757
Number of Units: 1
Net Weight per Unit: 27500.000 mg
Sampling Method: MSP 7.3.1

Sampling Date: 2026-02-26
Lab Batch Date: 2026-02-26
Completion Date: 2026-03-09

Serving Number: 5.00000

Initial Gross Weight: 31.800 g
Net Weight: 27.500 g




Kratom Tested | Heavy Metals Tested | Mycotoxins Passed | Pesticides Passed | Residual Solvents Passed | Pathogenic Passed | Microbiology Petrifilm Passed

## Kratom Alkaloids

Specimen Weight: 1517.300 mg
Pieces For Panel: 5

Tested
SOP 13.062 Kratom Alkaloids (LCMS)

| Analyte | LOQ (%) | Action Level (mg/g) | Result (mg/g) | (%) |
|---|---|---|---|---|
| Mitragynine | 0.0146 | 100 | 3.2080 | 0.3208 |
| Paynantheine | 0.0146 | 100 | 0.2192 | 0.02192 |
| 7-Hydroxy Mitragynine | 0.0146 | 0.4 | <LOQ | <LOQ |
| Corynoxine B | 0.0146 | 100 | <LOQ | <LOQ |
| Isorhynchophylline | 0.0146 | 100 | <LOQ | <LOQ |
| Mitraphylline | 0.0146 | 100 | <LOQ | <LOQ |
| Speciociliatine | 0.0146 | 100 | <LOQ | <LOQ |
| Speciogynine | 0.0146 | 100 | <LOQ | <LOQ |

**Prep. By:** 1260 **Date:** 2026-02-27 17:20:23 **Analyzed By:** 1263 **Date:** 2026-02-27 13:07:12
**Reviewed By:** 1150 **Date:** 2026-03-08 18:20:20 **Lab Batch #:** AAHL757-412 **Date:** 2026-03-08 18:20:20

### Total Detectable Alkaloids

| Total Kratom Alkaloids Per Package | | Total Kratom Alkaloids Per Serving | |
|---|---|---|---|
| 0.343% | 94.325mg | 0.343% | 18.865mg |

## Kratom Heavy Metals

Specimen Weight: 254.700 mg
Dilution Factor: 196.309

Tested
SOP13.051,SOP13.048 (ICP-3; icp-1,ICP-MS)

| 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:** 2026-03-03 11:46:11 **Analyzed By:** 1204 **Date:** 2026-03-03 11:46:11
**Reviewed By:** 1204 **Date:** 2026-03-05 09:41:50 **Lab Batch #:** AAHL757-413 **Date:** 2026-03-05 09:41:50

Aixia 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, (ppm) = (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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QA By: 1057 on 2026-03-09 15:41:45 V1

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5.5g Gummy - 20mg Mitragynine - Cherry Limeade
Sample Matrix: Kratom Edibles (Ingestion)

# Certificate of Analysis

Compliance Test

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2145 E Pine Ave
Meridian, ID 83642

Batch # 26021920MITCL
Batch Date: 2026-02-19
Extracted From: Kratom

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

Order # MWG260225-020001
Order Date: 2026-02-25
Sample # AAHL757
Number of Units: 1
Net Weight per Unit: 27500.000 mg
Sampling Method: MSP 7.3.1

Sampling Date: 2026-02-26
Lab Batch Date: 2026-02-26
Completion Date: 2026-03-09

Serving Number: 5.00000

Initial Gross Weight: 31.800 g
Net Weight: 27.500 g

## Residual Solvents - FL

**Passed**

Specimen Weight: 18.700 mg
Dilution Factor: 1.000
SOP13.039 (GCMS-HS)

| 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 | 6.26 |
| 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 | <LOQ | 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:** 1291 **Date:** 2026-02-28 12:48:35 **Analyzed By:** 1263 **Date:** 2026-02-28 12:48:35
**Reviewed By:** 1222 **Date:** 2026-03-03 16:30:48 **Lab Batch #:** AAHL757-55 **Date:** 2026-03-03 16:30:48

## Mycotoxins

**Passed**

Specimen Weight: 597.800 mg
Dilution Factor: 2.510
SOP13.007 (LCMS/GCMS)

| 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:** 2026-02-27 18:21:21 **Analyzed By:** 1256 **Date:** 2026-02-27 18:21:21
**Reviewed By:** 1222 **Date:** 2026-03-03 20:21:31 **Lab Batch #:** AAHL757-165 **Date:** 2026-03-03 20:21:31

## Pathogenic SE (Microarray)

**Passed**

Specimen Weight: 1048.100 mg
Dilution Factor: 1.000
SOP13.019 (Micro Array)

| 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:** 1204 **Date:** 2026-03-01 09:13:51 **Analyzed By:** 1179 **Date:** 2026-03-02 09:13:51
**Reviewed By:** 1035 **Date:** 2026-03-02 20:42:01 **Lab Batch #:** AAHL757-445 **Date:** 2026-03-02 20:42:01

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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QA By: 1057 on 2026-03-09 15:41:45 V1

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5.5g Gummy - 20mg Mitragynine - Cherry Limeade
Sample Matrix: Kratom Edibles (Ingestion)

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

Order # MWG260225-020001
Order Date: 2026-02-25
Sample # AAHL757
Number of Units: 1
Net Weight per Unit: 27500.000 mg
Sampling Method: MSP 7.3.1

Sampling Date: 2026-02-26
Lab Batch Date: 2026-02-26
Completion Date: 2026-03-09

Serving Number: 5.00000

Initial Gross Weight: 31.800 g
Net Weight: 27.500 g

## Microbiology ACEC (Petrifilm)

**Passed**

Specimen Weight: 1006.000 mg
Dilution Factor: 1.000

SOP13.003 (Petrifilm)

| 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 | <1000 | | | | |

| | | | |
|---|---|---|---|
| **Prep. By:** 1284 | **Date:** 2026-02-27 10:32:03 | **Analyzed By:** 1284 | **Date:** 2026-02-27 10:32:03 |
| **Reviewed By:** 1204 | **Date:** 2026-03-02 14:23:47 | **Lab Batch #:** AAHL757-443 | **Date:** 2026-03-02 14:23:47 |

Aixia Sun Lab Director/Principal Scientist
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QA By: 1057 on 2026-03-09 15:41:45 V1

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Sample Matrix: Kratom Edibles (Ingestion)

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

Order # MWG260225-020001
Order Date: 2026-02-25
Sample # AAHL757
Number of Units: 1
Net Weight per Unit: 27500.000 mg
Sampling Method: MSP 7.3.1

Sampling Date: 2026-02-26
Lab Batch Date: 2026-02-26
Completion Date: 2026-03-09

Serving Number: 5.00000

Initial Gross Weight: 31.800 g
Net Weight: 27.500 g

## Pesticides

**Passed**

Specimen Weight: 597.800 mg
Dilution Factor: 2.510

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 | Metalaxyl | 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-1 | 24.8 | 1000 | <LOQ |
| Fipronil | 3.1700E-1 | 24.8 | 100 | <LOQ | Trifloxystrobin | 1.3400E-1 | 24.8 | 3000 | <LOQ |
| Flonicamid | 4.6600E-1 | 24.8 | 2000 | <LOQ | | | | | |

**Prep. By:** 1256 **Date:** 2026-02-27 18:21:21 **Analyzed By:** 1256 **Date:** 2026-02-27 18:21:21

**Reviewed By:** 1222 **Date:** 2026-03-03 20:21:31 **Lab Batch #:** AAHL757-202 **Date:** 2026-03-03 20:21:31

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QA By: 1057 on 2026-03-09 15:41:45 V1

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Order Date: 2026-02-25
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Sampling Date: 2026-02-26
Lab Batch Date: 2026-02-26
Completion Date: 2026-03-09

Serving Number: 5.00000

Initial Gross Weight: 31.800 g
Net Weight: 27.500 g

## 7-Hydroxy Mitragynine at Dry Weight

Specimen Weight: 1517.300 mg
Dilution Factor: 10000.000

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

| Analyte | LOQ (%) | Action Level (ppm) | Result (ppm) | (%) |
|---|---|---|---|---|
| 7-Hydroxy Mitragynine | 0.0146 | 400 | <LOQ | <LOQ |

| | | | |
|---|---|---|---|
| **Prep. By:** 1260 | **Date:** 2026-02-27 17:20:23 | **Analyzed By:** 1263 | **Date:** 2026-02-27 13:07:12 |
| **Reviewed By:** 1150 | **Date:** 2026-03-08 18:20:20 | **Lab Batch #:** AAHL757-412 | **Date:** 2026-03-08 18:20:20 |

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QA By: 1057 on 2026-03-09 15:41:45 V1