

ANALYZED BY:

Anresco Laboratories
1375 Van Dyke Avenue,
San Francisco, CA 94124
C8-0000052-LIC

CUSTOMER:

Happy Hippo
2145 E Pine
Meridian 83942



SAMPLE INFORMATION

Sample No.: 1271164
Product Name: Animal Farm - Happy Hippo - K2 - Tropical Orange
Lot #: 610

Date Collected: 01/14/2025
Date Received: 01/15/2025
Date Reported: 01/28/2025

TEST SUMMARY

Kavalactones: ✔ Pass **Microbiological Screen:** ✔ Tested
Residual Solvent Screen: ✔ Pass **Heavy Metal Screen:** ✔ Pass
Alkaloid Profile Limited: ✔ Tested **Overall:** ✔ Pass

Kavalactones

01/28/2025

Method: Standard Solution Assay Parameters provided by Cerilliant

Instrument: HPLC-DAD

| Analyte | LOD/LOQ | Findings | Units |
|--------------------|-------------|---------------|-------|
| Methysticin | 0.001/0.006 | 0.89 | mg/mL |
| Dihydromethysticin | 0.001/0.006 | 0.64 | mg/mL |
| Kavain | 0.001/0.006 | 3.32 | mg/mL |
| Dihydrokavain | 0.001/0.006 | 2.23 | mg/mL |
| Yangonin | 0.001/0.006 | 1.09 | mg/mL |
| Desmethoxyyangonin | 0.001/0.006 | 0.73 | mg/mL |
| Flavokawain C | 0.001/0.006 | None Detected | mg/mL |
| Flavokawain A | 0.001/0.006 | 0.11 | mg/mL |
| Flavokawain B | 0.001/0.006 | 0.22 | mg/mL |
| Total Kavalactones | - | 9.23 | mg/mL |

Microbiological Screen

01/24/2025

Method: FDA BAM

| Analyte | Findings | Units |
|-----------|----------|-------|
| Coliforms | <10 | cfu/g |
| E. coli | <10 | cfu/g |
| Yeast | <10 | cfu/g |
| Mold | <10 | cfu/g |

Residual Solvent Screen ✔ Pass

01/21/2025

Method: USP <467>

| Analyte | LOD/LOQ (ppm) | Findings (ppm) | Limit (ppm) | Status |
|--------------------------------------|---------------|----------------|-------------|--------|
| 1,2-Dichloroethane | 0.2/0.5 | ND | 5 | Pass |
| Acetone | 67/200 | ND | 5000 | Pass |
| Acetonitrile | 67/200 | ND | 410 | Pass |
| Benzene | 0.2/0.5 | ND | 2 | Pass |
| n-Butane | 67/200 | ND | - | - |
| Chloroform | 0.2/0.5 | ND | 60 | Pass |
| Ethanol | 67/200 | ND | 5000 | Pass |
| Ethyl acetate | 67/200 | ND | 5000 | Pass |
| Ethyl ether | 67/200 | ND | 5000 | Pass |
| Ethylene oxide | 0.2/0.5 | ND | 10 | Pass |
| n-Heptane | 67/200 | ND | 5000 | Pass |
| n-Hexane | 67/200 | ND | 290 | Pass |
| Isopropyl alcohol | 67/200 | ND | 5000 | Pass |
| Methanol | 67/200 | 284.00 | 3000 | Pass |
| Methylene chloride | 0.2/0.5 | ND | 600 | Pass |
| n-Pentane | 67/200 | ND | 5000 | Pass |
| Propane | 67/200 | ND | - | - |
| Toluene | 67/200 | ND | 890 | Pass |
| Total xylenes (ortho-, meta-, para-) | 67/200 | ND | 2170 | Pass |
| Trichloroethylene | 0.2/0.5 | ND | 80 | Pass |

Heavy Metal Screen ✔ Pass

01/23/2025

Method: MF-CHEM-16

Instrument: Inductively Coupled Plasma Mass Spectrometry (ICP-MS)

| Analyte | LOD/LOQ (µg/g) | Findings (µg/g) | Intake (µg/day) | Limit (µg/day) | Status |
|---------|----------------|-----------------|-----------------|----------------|--------|
| Arsenic | 0.02/0.05 | ND | ND | 10 | Pass |
| Cadmium | 0.02/0.05 | ND | ND | 4.1 | Pass |
| Lead | 0.02/0.05 | ND | ND | 10 | Pass |
| Mercury | 0.02/0.05 | ND | ND | 2 | Pass |

Alkaloid Profile Limited

01/21/2025

Method: MF 12D030

Instrument: Liquid Chromatography Diode Array Detector (LC-DAD)

Limit of Quantitation Alkaloid Profile Limited (LC-DAD) 0.1 mg/g

Limit of Detection 0.04 mg/g

Limit of Quantitation 0.1 mg/g

| Alkaloid | mg/g | % | mg/ml |
|------------------------|------|-------|-------|
| Mitragynine | 0.89 | 0.089 | 0.92 |
| 7-Hydroxymitragynine | ND | 0.0 | ND |
| Total Alkaloids | 0.89 | 0.089 | 0.92 |

Comments Density: 1.02441 g/mL

ND = None Detected
LOD = Limit of Detection
LOQ = Limit of Quantitation

Reported by



Vu Lam
Lab Co Director

January 28, 2025



Scan to verify