

CERTIFICATE OF ANALYSIS

SAMPLE NAME: PART # 20250 - UPRISING BOOMIN' BERRY 3CT (SINGLE UNIT)
SAMPLE CODE: DTS-241218-014
CLIENT: MIT45
BATCH RESULT: PASS

MATRIX NAME: Edible Solid - Gummy
SAMPLE TYPE: Quality Assurance
RECEIVED DATE: Fri, Dec 20, 2024
PUBLISHED DATE: Fri, Dec 27, 2024
BATCH/LOT CODE: 2032
BATCH SIZE: 60g
SAMPLE SIZE: 60g
AVERAGE UNIT WEIGHT: 5.1656g (1 gummy, 3 servings/package.)

MITRAGYNINE 22.84 mg / serv

TOTAL MAJOR ALKALOIDS 23.93 mg / serv

TOTAL MINOR ALKALOIDS 0.01 mg / serv



| | | | | |
|---|--|--|---|--|
| ALKU ✓ Kratom Alkaloids High Level | ALKL ✓ Kratom Alkaloids Low Level | SOL ✓ Residual Solvents USP <467> | SAL ✓ Salmonella 25g qPCR | ECOLI ✓ Total E. Coli & Coliforms Plate |
| PGUSP ✓ Pesticides USP <561> | PLUSP ✓ Pesticides USP <561> | TAMC ✓ Total Aerobic Bacteria Plate | SAUR ✓ Staphylococcus aureus Plate | HVMET ✓ Heavy Metals 4 |
| TYMFD ✓ Total Yeast & Mold Plate | FTIRR ✓ Identification by FTIR Report | | | |

APPROVALS

RESULTS REVIEWED BY:



Leslie Varela
Laboratory Director

Cambium Analytica
Friday, Dec 27, 2024

RESULTS CERTIFIED BY:



Douglas Smith
VP - Scientific Operations

Cambium Analytica
Friday, Dec 27, 2024

This report may not be reproduced except in full without approval from Cambium Analytica. The results herein relate only to the sample & batch identified in this report.



ALKU

KRATOM ALKALOIDS - HIGH LEVELLAB-TM-052 - DETERMINATION OF KRATOM ALKALOID CONTENT BY UPLC-DAD
ALKU-DTS-241218-014-01 - THU, DEC 26, 2024

| ANALYTE | VALUE | VALUE (MG/G) | PER SERVING | PER PACKAGE | ACTION LIMIT | LOD | LOQ | STATUS |
|-----------------------|---------|--------------|-------------|-------------|--------------|----------|----------|--------|
| Mitragynine | 0.442 % | 4.421 mg/g | 22.84 mg | 68.51 mg | N/A | 0.3 ug/g | 0.5 ug/g | N/A |
| Paynantheine | 0.012 % | 0.117 mg/g | 0.60 mg | 1.81 mg | N/A | 0.3 ug/g | 0.5 ug/g | N/A |
| Speciogynine | 0.007 % | 0.069 mg/g | 0.36 mg | 1.07 mg | N/A | 0.3 ug/g | 0.5 ug/g | N/A |
| Speciociliatine | 0.003 % | 0.026 mg/g | 0.13 mg | 0.40 mg | N/A | 0.3 ug/g | 0.5 ug/g | N/A |
| Total Major Alkaloids | 0.463 % | 4.633 mg/g | 23.93 mg | 71.80 mg | N/A | N/A | N/A | N/A |

ALKL

KRATOM ALKALOIDS - LOW LEVELLAB-TM-047 - DETERMINATION OF KRATOM ALKALOID CONTENT BY LC-TQ
ALKL-DTS-241218-014-01 - FRI, DEC 27, 2024

| ANALYTE | VALUE | VALUE (MG/G) | PER SERVING | PER PACKAGE | ACTION LIMIT | LOD | LOQ | STATUS |
|-----------------------|----------|--------------|-------------|-------------|--------------|------------|------------|--------|
| 7-Hydroxymitragynine | 0.0001 % | 0.001 mg/g | 0.01 mg | 0.02 mg | N/A | 0.002 ug/g | 0.011 ug/g | N/A |
| Mitraphylline | ND | N/A | N/A | N/A | N/A | 0.004 ug/g | 0.019 ug/g | N/A |
| Total Minor Alkaloids | 0.0001 % | N/A | 0.01 mg | 0.02 mg | N/A | 0.006 ug/g | 0.03 ug/g | N/A |



SOL

RESIDUAL SOLVENTS - USP <467>

LAB-TM-004 - DETERMINATION OF RESIDUAL SOLVENTS
SOL-DTS-241218-014-01 - THU, DEC 26, 2024

| ANALYTE | VALUE | ACTION LIMIT | LOD | LOQ | STATUS |
|---|--------|--------------|------------|------------|--------|
| 1,2-Dichloroethane | ND | 5 ug/g | 0.4 ug/g | 1.00 ug/g | PASS |
| 2-Methylbutane | ND | N/A | 1.54 ug/g | 5.14 ug/g | N/A |
| 2-Methylpentane | ND | N/A | 0.046 ug/g | 0.154 ug/g | N/A |
| 2,2-Dimethylbutane | ND | N/A | 0.98 ug/g | 3.27 ug/g | N/A |
| 2,3-Dimethylbutane | ND | N/A | 2.19 ug/g | 7.32 ug/g | N/A |
| 3-Methylpentane | ND | N/A | 0.73 ug/g | 2.44 ug/g | N/A |
| Acetone | ND | 5000 ug/g | 1.57 ug/g | 5.23 ug/g | PASS |
| Acetonitrile | ND | 410 ug/g | 1.85 ug/g | 6.17 ug/g | PASS |
| Benzene | ND | 2 ug/g | 0.18 ug/g | 0.50 ug/g | PASS |
| Butane | ND | N/A | 1.68 ug/g | 5.59 ug/g | N/A |
| Chloroform | ND | 60 ug/g | 0.78 ug/g | 1.00 ug/g | PASS |
| Ethanol | ND | 5000 ug/g | 6.02 ug/g | 20.1 ug/g | PASS |
| Ethyl Acetate | ND | 5000 ug/g | 1.95 ug/g | 6.49 ug/g | PASS |
| Ethyl Ether | ND | 5000 ug/g | 1.37 ug/g | 4.55 ug/g | PASS |
| Ethylene Oxide | ND | N/A | 0.15 ug/g | 0.49 ug/g | N/A |
| Heptane | ND | 5000 ug/g | 1.31 ug/g | 4.37 ug/g | PASS |
| Hexane | ND | 290 ug/g | 1.42 ug/g | 4.74 ug/g | PASS |
| Isobutane | ND | N/A | 1.6 ug/g | 5.34 ug/g | N/A |
| Isopropyl Alcohol | ND | N/A | 4.9 ug/g | 16.3 ug/g | N/A |
| Methanol | ND | 3000 ug/g | 7.89 ug/g | 26.4 ug/g | PASS |
| Methylene Chloride | ND | 600 ug/g | 1.36 ug/g | 4.53 ug/g | PASS |
| Neopentane | ND | N/A | 1.49 ug/g | 4.97 ug/g | N/A |
| Pentane | ND | 5000 ug/g | 1.46 ug/g | 4.87 ug/g | PASS |
| Propane | ND | N/A | 1.95 ug/g | 6.51 ug/g | N/A |
| Toluene | ND | 890 ug/g | 1.88 ug/g | 6.26 ug/g | PASS |
| Total Xylenes | ND | 2170 ug/g | 2.02 ug/g | 6.72 ug/g | PASS |
| Trichloroethylene | ND | 80 ug/g | 0.29 ug/g | 0.96 ug/g | PASS |
| Butanes (Sum of Butane and Isobutane) | 0 ug/g | N/A | N/A | N/A | N/A |
| Hexanes (Sum of Hexane, 2,2-Dimethylbutane, 2,3-Dimethylbutane, 2-Methylpentane, and 3-Methylpentane) | 0 ug/g | 290 ug/g | N/A | N/A | PASS |
| Pentanes (Sum of Pentane, 2-Methylbutane, and Neopentane) | 0 ug/g | 5000 ug/g | N/A | N/A | PASS |



SAL

SALMONELLA - 25G QPCRLAB-TM-063 - DETECTION AND ISOLATION OF SALMONELLA SPP. IN FOODS AND DIETARY SUPPLEMENTS
SAL-DTS-241218-014-01 - THU, DEC 26, 2024

| ANALYTE | VALUE | ACTION LIMIT | LOD | LOQ | STATUS |
|----------------|----------|--------------|-------|-------|--------|
| Salmonella Spp | ND CFU/g | Detection | CFU/g | CFU/g | PASS |

ECOLI

TOTAL E. COLI & COLIFORMS - PLATELAB-TM-059 - ENUMERATION OF ESCHERICHIA COLI AND TOTAL COLIFORM IN FOODS AND DIETARY SUPPLEMENTS
ECOLI-DTS-241218-014-01 - THU, DEC 26, 2024

| ANALYTE | VALUE | ACTION LIMIT | LOD | LOQ | STATUS |
|-----------------|----------|--------------|----------------|----------------|--------|
| E. coli | ND CFU/g | Detection | 10 CFU/g CFU/g | 10 CFU/g CFU/g | PASS |
| Total Coliforms | ND CFU/g | 1000 CFU/g | 10 CFU/g CFU/g | 10 CFU/g CFU/g | PASS |



PGUSP

PESTICIDES - USP <561> - GC/TQ

LAB-TM-039 - USP 561 PESTICIDES ANALYSIS IN ARTICLES OF BOTANICAL ORIGIN BY GC/TQ
PGUSP-DTS-241218-014-01 - FRI, DEC 27, 2024

| ANALYTE | VALUE | ACTION LIMIT | LOD | LOQ | STATUS |
|--|-------|--------------|-----------|-----------|--------|
| Aldrin + Dieldrin | ND | 0.05 ug/g | 0.1 ng/g | 0.2 ng/g | PASS |
| Bromophos Ethyl | ND | 0.05 ug/g | 0.1 ng/g | 0.2 ng/g | PASS |
| Bromophos Methyl | ND | 0.05 ug/g | 0.1 ng/g | 0.2 ng/g | PASS |
| Bromopropylate | ND | 3.00 ug/g | 6 ng/g | 12 ng/g | PASS |
| Chlordane (Sum of -Cis, -Trans, Oxychlordane) | ND | 0.05 ug/g | 0.1 ng/g | 0.2 ng/g | PASS |
| Chlorthal-Dimethyl | ND | 0.01 ug/g | 0.02 ng/g | 0.04 ng/g | PASS |
| DDT (Sum of O,P-DDE, P,P-DDE, O,P-DDT, P,P-DDT, O,P-TDE, and P,P-TDE) | ND | 1.00 ug/g | 2 ng/g | 4 ng/g | PASS |
| Dicofol | ND | 0.50 ug/g | 1 ng/g | 2 ng/g | PASS |
| Endosulfan (Sum of Isomers and Sulphate) | ND | 3.00 ug/g | 6 ng/g | 12 ng/g | PASS |
| Endrin | ND | 0.05 ug/g | 0.1 ng/g | 0.2 ng/g | PASS |
| Fenchlorophos (Sum of Fenchlorophos and Fenchlorophos-Oxon) | ND | 0.10 ug/g | 0.2 ng/g | 0.4 ng/g | PASS |
| Fenitrothion | ND | 0.50 ug/g | 1 ng/g | 2 ng/g | PASS |
| Fenvalerate | ND | 1.50 ug/g | 3 ng/g | 6 ng/g | PASS |
| Fluvalinate-Tau | ND | 0.05 ug/g | 0.1 ng/g | 0.2 ng/g | PASS |
| Heptachlor (Sum of Heptachlor, Cis-Heptachlorepoide, and Trans-Heptachlorepoide) | ND | 0.05 ug/g | 0.1 ng/g | 0.2 ng/g | PASS |
| Hexachlorobenzene | ND | 0.10 ug/g | 0.2 ng/g | 0.4 ng/g | PASS |
| Hexachlorocyclohexane (Sum of Isomers Alpha-, Beta-, Delta-, and Epsilon-) | ND | 0.30 ug/g | 0.6 ng/g | 1.2 ng/g | PASS |
| Lindane (Gamma-Hexachlorocyclohexane) | ND | 0.60 ug/g | 1.2 ng/g | 2.4 ng/g | PASS |
| Methacrifos | ND | 0.05 ug/g | 0.1 ng/g | 0.2 ng/g | PASS |
| Methoxychlor | ND | 0.05 ug/g | 0.1 ng/g | 0.2 ng/g | PASS |
| Mirex | ND | 0.01 ug/g | 0.02 ng/g | 0.04 ng/g | PASS |
| Parathion Ethyl + Paraoxon Ethyl | ND | 0.50 ug/g | 1 ng/g | 2 ng/g | PASS |
| Pentachloroanisole | ND | 0.01 ug/g | 0.02 ng/g | 0.04 ng/g | PASS |
| Procymidone | ND | 0.10 ug/g | 0.2 ng/g | 0.4 ng/g | PASS |
| Quintozene (Sum of Quintozene, Pentachloroaniline, and Methyl-Pentachlorophenyl Sulfide) | ND | 1.00 ug/g | 2 ng/g | 4 ng/g | PASS |



PGUSP

PESTICIDES - USP <561> - GC/TQLAB-TM-039 - USP 561 PESTICIDES ANALYSIS IN ARTICLES OF BOTANICAL ORIGIN BY GC/TQ
PGUSP-DTS-241218-014-01 - FRI, DEC 27, 2024

| ANALYTE | VALUE | ACTION LIMIT | LOD | LOQ | STATUS |
|-------------|-------|--------------|-----------|-----------|--------|
| S-421 | ND | 0.02 ug/g | 0.04 ng/g | 0.08 ng/g | PASS |
| Tecnazene | ND | 0.05 ug/g | 0.1 ng/g | 0.2 ng/g | PASS |
| Tetradifon | ND | 0.30 ug/g | 0.6 ng/g | 1.2 ng/g | PASS |
| Vinclozolin | ND | 0.40 ug/g | 0.8 ng/g | 1.6 ng/g | PASS |



PLUSP

PESTICIDES - USP <561> - LC/TQ

LAB-TM-038 - USP 561 PESTICIDE ANALYSIS IN ARTICLES OF BOTANICAL ORIGIN BY LC/TQ
PLUSP-DTS-241218-014-01 - FRI, DEC 27, 2024

| ANALYTE | VALUE | ACTION LIMIT | LOD | LOQ | STATUS |
|---|-------|--------------|-----------|---------|--------|
| Acephate | ND | 0.1 ug/g | 12.5 ng/g | 25 ng/g | PASS |
| Alachlor | ND | 0.05 ug/g | 12.5 ng/g | 25 ng/g | PASS |
| Azinphos Ethyl | ND | 0.1 ug/g | 12.5 ng/g | 25 ng/g | PASS |
| Azinphos Methyl | ND | 1 ug/g | 12.5 ng/g | 25 ng/g | PASS |
| Chlorfenvinphos | ND | 0.5 ug/g | 12.5 ng/g | 25 ng/g | PASS |
| Chlorpyrifos Ethyl | ND | 0.2 ug/g | 12.5 ng/g | 25 ng/g | PASS |
| Cyfluthrin | ND | 0.1 ug/g | 12.5 ng/g | 25 ng/g | PASS |
| Cypermethrin | ND | 1 ug/g | 12.5 ng/g | 25 ng/g | PASS |
| Deltamethrin | ND | 0.5 ug/g | 12.5 ng/g | 25 ng/g | PASS |
| Diazinon | ND | 0.5 ug/g | 12.5 ng/g | 25 ng/g | PASS |
| Dichlorvos | ND | 1 ug/g | 12.5 ng/g | 25 ng/g | PASS |
| Dimethoate + Omethoate | ND | 0.1 ug/g | 12.5 ng/g | 25 ng/g | PASS |
| Ethion | ND | 2 ug/g | 12.5 ng/g | 25 ng/g | PASS |
| Etrimphos | ND | 0.05 ug/g | 12.5 ng/g | 25 ng/g | PASS |
| Fenpropathrin | ND | 0.03 ug/g | 12.5 ng/g | 25 ng/g | PASS |
| Fensulfothion (Sum of Fensulfothion, Fensulfothion-Oxon, Fensulfothion-Oxon-Sulfone, and Fensulfothion-Sulfone) | ND | 0.05 ug/g | 12.5 ng/g | 25 ng/g | PASS |
| Fenthion (Sum of Fenthion, Fenthion-Oxon, Fenthion-Oxon-Sulfone, Fenthion-Oxon-Sulfoxide, Fenthion-Sulfone, and Fenthion-Sulfoxide) | ND | 0.05 ug/g | 12.5 ng/g | 25 ng/g | PASS |
| Flucythrinate | ND | 0.05 ug/g | 12.5 ng/g | 25 ng/g | PASS |
| Fonophos | ND | 0.05 ug/g | 12.5 ng/g | 25 ng/g | PASS |
| Lambda-Cyhalothrin | ND | 1 ug/g | 12.5 ng/g | 25 ng/g | PASS |
| Malathion + Malaaxon | ND | 1 ug/g | 12.5 ng/g | 25 ng/g | PASS |
| Mecarbam | ND | 0.05 ug/g | 12.5 ng/g | 25 ng/g | PASS |
| Methamidophos | ND | 0.05 ug/g | 12.5 ng/g | 25 ng/g | PASS |
| Methidathion | ND | 0.2 ug/g | 12.5 ng/g | 25 ng/g | PASS |
| Monocrotophos | ND | 0.1 ug/g | 12.5 ng/g | 25 ng/g | PASS |
| Pendimethalin | ND | 0.1 ug/g | 12.5 ng/g | 25 ng/g | PASS |
| Permethrins (Sum of Cis- and Trans-Permethrin) | ND | 1 ug/g | 12.5 ng/g | 25 ng/g | PASS |
| Phosalone | ND | 0.1 ug/g | 12.5 ng/g | 25 ng/g | PASS |
| Phosmet | ND | 0.05 ug/g | 12.5 ng/g | 25 ng/g | PASS |



PLUSP

PESTICIDES - USP <561> - LC/TQ

LAB-TM-038 - USP 561 PESTICIDE ANALYSIS IN ARTICLES OF BOTANICAL ORIGIN BY LC/TQ
PLUSP-DTS-241218-014-01 - FRI, DEC 27, 2024

| ANALYTE | VALUE | ACTION LIMIT | LOD | LOQ | STATUS |
|--|-------|--------------|-----------|---------|--------|
| Piperonyl Butoxide | ND | 3 ug/g | 12.5 ng/g | 25 ng/g | PASS |
| Pirimiphos Ethyl | ND | 0.05 ug/g | 12.5 ng/g | 25 ng/g | PASS |
| Pirimiphos Methyl (Sum of Pirimiphos-Methyl and n- Desethyl-Pirimiphos-Methyl) | ND | 4 ug/g | 12.5 ng/g | 25 ng/g | PASS |
| Profenophos | ND | 0.1 ug/g | 12.5 ng/g | 25 ng/g | PASS |
| Prothiophos | ND | 0.05 ug/g | 12.5 ng/g | 25 ng/g | PASS |
| Pyrethrins (Sum of Cinerin 1, Jasmolin 1, and Pyrethrin 1) | ND | 3 ug/g | 12.5 ng/g | 25 ng/g | PASS |
| Quinalphos | ND | 0.05 ug/g | 12.5 ng/g | 25 ng/g | PASS |



TAMC

TOTAL AEROBIC BACTERIA - PLATELAB-TM-060 - ENUMERATION OF TOTAL AEROBIC COUNT IN FOODS AND DIETARY SUPPLEMENTS
TAMC-DTS-241218-014-01 - THU, DEC 26, 2024

| ANALYTE | VALUE | ACTION LIMIT | LOD | LOQ | STATUS |
|---------------------|-------|--------------|-----------|-----------|--------|
| Total Aerobic Count | ND | 10000 CFU/g | 100 CFU/g | 100 CFU/g | PASS |

SAUR

STAPHYLOCOCCUS AUREUS - PLATELAB-TM-062 - ENUMERATION OF STAPHYLOCOCCUS AUREUS IN FOODS AND DIETARY SUPPLEMENTS
SAUR-DTS-241218-014-01 - THU, DEC 26, 2024

| ANALYTE | VALUE | ACTION LIMIT | LOD | LOQ | STATUS |
|-----------|-------|--------------|----------|----------|--------|
| S. aureus | ND | Detection | 10 CFU/g | 10 CFU/g | PASS |

HVMET

HEAVY METALS - 4LAB-TM-044 - DETERMINATION OF HEAVY METALS BY ICP-MS
HVMET-DTS-241218-014-01 - FRI, DEC 27, 2024

| ANALYTE | VALUE | VALUE (MG/G) | PER SERVING | PER PACKAGE | ACTION LIMIT | LOD | LOQ | STATUS |
|---------|------------|--------------|-------------|-------------|--------------|-------------|-------------|--------|
| Arsenic | ND | N/A | N/A | N/A | 1 ug/g | 0.198 ug/kg | 0.662 ug/kg | PASS |
| Cadmium | ND | N/A | N/A | N/A | 1 ug/g | 0.082 ug/kg | 0.272 ug/kg | PASS |
| Lead | 0.013 ug/g | 0 mg/g | 0.06 ug | 0.19 ug | 3 ug/g | 0.155 ug/kg | 0.515 ug/kg | PASS |
| Mercury | ND | N/A | N/A | N/A | 1 ug/g | 0.017 ug/kg | 0.057 ug/kg | PASS |

TYMFD

TOTAL YEAST & MOLD - PLATELAB-TM-061 - ENUMERATION OF YEAST AND MOLD IN FOODS AND DIETARY SUPPLEMENTS
TYMFD-DTS-241218-014-01 - THU, DEC 26, 2024

| ANALYTE | VALUE | ACTION LIMIT | LOD | LOQ | STATUS |
|----------------------|-------|--------------|-----------|-----------|--------|
| Total Yeast and Mold | ND | 100 CFU/g | 100 CFU/g | 100 CFU/g | PASS |

FTIRR

IDENTIFICATION BY FTIR - REPORTNULL IDENTIFICATION BY FTIR
FTIRR-DTS-241218-014-01 - THU, DEC 26, 2024

| ANALYTE | VALUE | ACTION LIMIT | LOD | LOQ | STATUS |
|---------------------|--------|--------------|-----|-----|--------|
| Quality Index Score | 99.5 % | 95-100 % | | | PASS |

