

Orange Banana PASS



SAMPLE ID
210564

SAMPLE NAME
Orange Banana

MATRIX
Concentrate

BATCH ID
AMMO-VP-04

TRACK AND TRACE TEST PACKAGE
1A406030000A812000000835

TRACK AND TRACE SOURCE PACKAGE(S)
1A40603000042D4000001537

COLLECTED, RECEIVED
08/19/2020 15:19, 08/20/2020 09:01

BATCH SIZE, SAMPLE SIZE
3969 units, 36 units

PRODUCTION DATE
05/28/2020

DISTRIBUTOR INFO
**Lightwork Distributors, LLC (Ammo)
4651 West End Rd.
Arcata, CA 95521
License: C11-0000051-LIC**

MANUFACTURER INFO
**ArcataX
4651 West End Rd
Arcata, CA 95521
License: CDPH-10002992**

**TOTAL
CANNABINOIDS**

72.52 %

**TOTAL
THC**

62.68 %

**TOTAL
CBD**

ND

Chemical Residue

No Analytes Detected

PASS

Chemical Residue GC

No Analytes Detected

PASS

Residual Solvent

Isopropyl Alcohol: 57.40 ug/g, Acetone: <LLOQ, Pentane: <LLOQ

PASS

Microbial qPCR

No Analytes Detected

PASS

Heavy Metals

Lead: <LLOQ

PASS

Mycotoxins

No Analytes Detected

PASS

Filth and Foreign Material

No Analytes Detected

PASS





CANNABINOID ANALYSIS

Total THC,CBD value(s) have been decarboxylated.

TOTAL THC: 626.8 mg/g (62.68 %), 313.4 mg per package
 TOTAL CBD: ND
 TOTAL CANNABINOIDS: 725.2 mg/g (72.52 %)

UNIT OF MEASUREMENT: Milligrams per Gram(mg/g)

| ANALYTE | RESULT | LOD | LLOQ | ANALYTE | RESULT | LOD | LLOQ |
|---------|-----------------------|--------|--------|---------|----------------------|--------|--------|
| THCa | 25.41 mg/g (2.541 %) | 0.2000 | 0.4000 | CBDv | ND | 0.2000 | 0.4000 |
| D9THC | 604.5 mg/g (60.45 %) | 0.2000 | 0.4000 | CBGa | 35.39 mg/g (3.539 %) | 0.2000 | 0.4000 |
| D8THC | ND | 0.2000 | 0.4000 | CBG | 36.12 mg/g (3.612 %) | 0.2000 | 0.4000 |
| THCv | 5.446 mg/g (0.5446 %) | 0.2000 | 0.4000 | CBN | ND | 0.2000 | 0.4000 |
| CBDa | ND | 0.2000 | 0.4000 | CBC | 18.38 mg/g (1.838 %) | 0.2000 | 0.4000 |
| CBD | ND | 0.2000 | 0.4000 | | | | |

ADDITIONAL INFORMATION

Method: SOP-TECH-001
 Instrument: UPLC-DAD

Sample Prepped 08/21/2020 10:15
 Sample Analyzed 08/21/2020 10:16

Sample Approved 08/24/2020 10:18



CHEMICAL RESIDUE ANALYSIS PASS

UNIT OF MEASUREMENT: Micrograms per Gram(ug/g)

| ANALYTE | RESULT | LOD | LLOQ | ACTION LEVEL | ANALYTE | RESULT | LOD | LLOQ | ACTION LEVEL |
|---------------|--------|--------|--------|--------------|---------------------|--------|--------|--------|--------------|
| Abamectin | ND | 0.0200 | 0.0400 | 0.1000 Pass | Acephate | ND | 0.0200 | 0.0400 | 0.1000 Pass |
| Acequinocyl | ND | 0.0200 | 0.0400 | 0.1000 Pass | Acetamiprid | ND | 0.0200 | 0.0400 | 0.1000 Pass |
| Aldicarb | ND | 0.0200 | 0.0400 | 0.0 Pass | Azoxystrobin | ND | 0.0200 | 0.0400 | 0.1000 Pass |
| Bifenazate | ND | 0.0200 | 0.0400 | 0.1000 Pass | Bifenthrin | ND | 0.0200 | 0.0400 | 3.000 Pass |
| Boscalid | ND | 0.0200 | 0.0400 | 0.1000 Pass | Carbaryl | ND | 0.0200 | 0.0400 | 0.5000 Pass |
| Carbofuran | ND | 0.0200 | 0.0400 | 0.0 Pass | Chlorantraniliprole | ND | 0.0200 | 0.0400 | 10.00 Pass |
| Clofentezine | ND | 0.0200 | 0.0400 | 0.1000 Pass | Coumaphos | ND | 0.0200 | 0.0400 | 0.0 Pass |
| Cyfluthrin | ND | 0.4000 | 1.000 | 2.000 Pass | Cypermethrin | ND | 0.4000 | 1.000 | 1.000 Pass |
| Daminozide | ND | 0.0200 | 0.0400 | 0.0 Pass | Diazinon | ND | 0.0200 | 0.0400 | 0.1000 Pass |
| Dichlorvos | ND | 0.0200 | 0.0400 | 0.0 Pass | Dimethoate | ND | 0.0200 | 0.0400 | 0.0 Pass |
| Dimethomorph | ND | 0.0200 | 0.0400 | 2.000 Pass | Ethoprophos | ND | 0.0200 | 0.0400 | 0.0 Pass |
| Etofenprox | ND | 0.0200 | 0.0400 | 0.0 Pass | Etoxazole | ND | 0.0200 | 0.0400 | 0.1000 Pass |
| Fenhexamid | ND | 0.0200 | 0.0400 | 0.1000 Pass | Fenoxycarb | ND | 0.0200 | 0.0400 | 0.0 Pass |
| Fenpyroximate | ND | 0.0200 | 0.0400 | 0.1000 Pass | Fipronil | ND | 0.0400 | 0.1000 | 0.0 Pass |
| Flonicamid | ND | 0.0200 | 0.0400 | 0.1000 Pass | Fludioxonil | ND | 0.0200 | 0.0400 | 0.1000 Pass |
| Hexythiazox | ND | 0.0200 | 0.0400 | 0.1000 Pass | Imazalil | ND | 0.0200 | 0.0400 | 0.0 Pass |
| Imidacloprid | ND | 0.0200 | 0.0400 | 5.000 Pass | Kresoxim methyl | ND | 0.0200 | 0.0400 | 0.1000 Pass |
| Malathion | ND | 0.0200 | 0.0400 | 0.5000 Pass | Metalaxyl | ND | 0.0200 | 0.0400 | 2.000 Pass |
| Methiocarb | ND | 0.0200 | 0.0400 | 0.0 Pass | Methomyl | ND | 0.0200 | 0.0400 | 1.000 Pass |
| Mevinphos | ND | 0.0200 | 0.0400 | 0.0 Pass | Myclobutanil | ND | 0.0200 | 0.0400 | 0.1000 Pass |
| Naled | ND | 0.0200 | 0.0400 | 0.1000 Pass | Oxamyl | ND | 0.0200 | 0.0400 | 0.5000 Pass |
| Paclobutrazol | ND | 0.0200 | 0.0400 | 0.0 Pass | Permethrins | ND | 0.0400 | 0.1000 | 0.5000 Pass |
| Phosmet | ND | 0.0200 | 0.0400 | 0.1000 Pass | Piperonyl butoxide | ND | 0.0200 | 0.0400 | 3.000 Pass |



| | | | | | | | | | | | |
|---------------|----|--------|--------|--------|------|-----------------|----|--------|--------|--------|------|
| Prallethrin | ND | 0.0200 | 0.0400 | 0.1000 | Pass | Propiconazole | ND | 0.0200 | 0.0400 | 0.1000 | Pass |
| Propoxur | ND | 0.0200 | 0.0400 | 0.0 | Pass | Pyrethrins | ND | 0.0200 | 0.0400 | 0.5000 | Pass |
| Pyridaben | ND | 0.0200 | 0.0400 | 0.1000 | Pass | Spinetoram | ND | 0.0200 | 0.0400 | 0.1000 | Pass |
| Spinosad | ND | 0.0300 | 0.0700 | 0.1000 | Pass | Spiromesifen | ND | 0.0200 | 0.0400 | 0.1000 | Pass |
| Spirotetramat | ND | 0.0200 | 0.0400 | 0.1000 | Pass | Spiroxamine | ND | 0.0200 | 0.0400 | 0.0 | Pass |
| Tebuconazole | ND | 0.0200 | 0.0400 | 0.1000 | Pass | Thiacloprid | ND | 0.0200 | 0.0400 | 0.0 | Pass |
| Thiamethoxam | ND | 0.0200 | 0.0400 | 5.000 | Pass | Trifloxystrobin | ND | 0.0200 | 0.0400 | 0.1000 | Pass |

ADDITIONAL INFORMATION

Method: SOP-TECH-002 Sample Prepped 08/21/2020 14:40 Sample Approved 08/24/2020 11:34
 Instrument: LC-MS/MS Sample Analyzed 08/21/2020 14:49

CHEMICAL RESIDUE GC ANALYSIS PASS

UNIT OF MEASUREMENT: Micrograms per Gram(ug/g)

| ANALYTE | RESULT | LOD | LLOQ | ACTION LEVEL | ANALYTE | RESULT | LOD | LLOQ | ACTION LEVEL |
|------------------|--------|--------|--------|--------------|--------------|--------|--------|--------|--------------|
| Captan | ND | 0.1000 | 0.2000 | 0.7000 Pass | Chlordane | ND | 0.0109 | 0.0136 | 0.0 Pass |
| Methyl parathion | ND | 0.0400 | 0.1000 | 0.0 Pass | PCNB | ND | 0.0200 | 0.0400 | 0.1000 Pass |
| Chlorfenapyr | ND | 0.0800 | 0.1000 | 0.0 Pass | Chlorpyrifos | ND | 0.0800 | 0.1000 | 0.0 Pass |

ADDITIONAL INFORMATION

Method: SOP-TECH-010 Sample Prepped 08/21/2020 14:40 Sample Approved 08/24/2020 10:10
 Instrument: GC-MS/MS Sample Analyzed 08/21/2020 14:49

RESIDUAL SOLVENT ANALYSIS PASS

UNIT OF MEASUREMENT: Micrograms per Gram(ug/g)

| ANALYTE | RESULT | LOD | LLOQ | ACTION LEVEL | ANALYTE | RESULT | LOD | LLOQ | ACTION LEVEL |
|-------------------|--------|--------|-------|--------------|--------------------|------------|--------|-------|--------------|
| Acetone | <LLOQ | 5.000 | 250.0 | 5000 Pass | Acetonitrile | ND | 5.000 | 50.00 | 410.0 Pass |
| Benzene | ND | 0.5000 | 1.000 | 1.000 Pass | Butane | ND | 76.80 | 96.00 | 5000 Pass |
| Chloroform | ND | 0.5000 | 1.000 | 1.000 Pass | Ethanol | ND | 10.00 | 50.00 | 5000 Pass |
| Ethyl Acetate | ND | 5.000 | 50.00 | 5000 Pass | Ethyl Ether | ND | 25.00 | 50.00 | 5000 Pass |
| Ethylene oxide | ND | 0.5000 | 1.000 | 1.000 Pass | Heptane | ND | 1.000 | 5.000 | 5000 Pass |
| Hexane | ND | 0.5000 | 5.000 | 290.0 Pass | Isopropyl Alcohol | 57.40 ug/g | 5.000 | 50.00 | 5000 Pass |
| Methanol | ND | 10.00 | 50.00 | 3000 Pass | Methylene chloride | ND | 0.5000 | 1.000 | 1.000 Pass |
| Pentane | <LLOQ | 1.000 | 50.00 | 5000 Pass | Propane | ND | 16.00 | 20.00 | 5000 Pass |
| Toluene | ND | 0.5000 | 1.000 | 890.0 Pass | Xylenes | ND | 6.000 | 100.0 | 2170 Pass |
| Trichloroethylene | ND | 0.2500 | 1.000 | 1.000 Pass | 1,2-Dichloroethane | ND | 0.5000 | 1.000 | 1.000 Pass |

ADDITIONAL INFORMATION

Method: SOP-TECH-021 Sample Prepped 08/22/2020 14:34 Sample Approved 08/24/2020 15:13
 Instrument: HS-GC-MS/FID Sample Analyzed 08/22/2020 14:37



MICROBIAL qPCR ANALYSIS PASS

UNIT OF MEASUREMENT: Cycle Threshold (Ct)

| ANALYTE | RESULT | LOD | LLOQ | ACTION LEVEL | | ANALYTE | RESULT | LOD | LLOQ | ACTION LEVEL | |
|-------------|--------|-------|------|--------------|------|----------------|--------|-------|------|--------------|------|
| A.fumigatus | ND | 33.00 | 0.0 | 0.0 | Pass | A. flavus | ND | 33.00 | 0.0 | 0.0 | Pass |
| A. niger | ND | 33.00 | 0.0 | 0.0 | Pass | A. terreus | ND | 33.00 | 0.0 | 0.0 | Pass |
| STEC | ND | 33.00 | 0.0 | 0.0 | Pass | Salmonella spp | ND | 33.00 | 0.0 | 0.0 | Pass |

ADDITIONAL INFORMATION

Method: SOP-TECH-016, SOP-TECH-022 Sample Prepped 08/21/2020 05:53 Sample Approved 08/21/2020 13:26
 Instrument: qPCR Sample Analyzed 08/21/2020 05:55

HEAVY METALS ANALYSIS PASS

UNIT OF MEASUREMENT: Micrograms per Gram(ug/g)

| ANALYTE | RESULT | LOD | LLOQ | ACTION LEVEL | | ANALYTE | RESULT | LOD | LLOQ | ACTION LEVEL | |
|---------|--------|--------|--------|--------------|------|---------|--------|--------|--------|--------------|------|
| Arsenic | ND | 0.0200 | 0.0500 | 0.2000 | Pass | Cadmium | ND | 0.0050 | 0.0500 | 0.2000 | Pass |
| Lead | <LLOQ | 0.0100 | 0.0500 | 0.5000 | Pass | Mercury | ND | 0.0030 | 0.0500 | 0.1000 | Pass |

ADDITIONAL INFORMATION

Method: SOP-TECH-013 Sample Prepped 08/21/2020 09:32 Sample Approved 08/24/2020 10:12
 Instrument: ICP-MS Sample Analyzed 08/21/2020 09:41

MYCOTOXINS ANALYSIS PASS

UNIT OF MEASUREMENT: Micrograms per Kilogram(ug/kg)

| ANALYTE | RESULT | LOD | LLOQ | ACTION LEVEL | | ANALYTE | RESULT | LOD | LLOQ | ACTION LEVEL | |
|------------------|--------|-------|-------|--------------|------|--------------|--------|-------|-------|--------------|------|
| Aflatoxin B1 | ND | 1.000 | 2.000 | N/A | | Aflatoxin B2 | ND | 2.000 | 5.000 | N/A | |
| Aflatoxin G1 | ND | 2.000 | 5.000 | N/A | | Aflatoxin G2 | ND | 2.000 | 5.000 | N/A | |
| Total Aflatoxins | ND | 10.00 | 14.00 | 20.00 | Pass | Ochratoxin A | ND | 1.000 | 2.000 | 20.00 | Pass |

ADDITIONAL INFORMATION

Method: SOP-TECH-020 Sample Prepped 08/21/2020 08:08 Sample Approved 08/24/2020 11:30
 Instrument: LC-MS/MS Sample Analyzed 08/21/2020 08:08



FILTH & FOREIGN MATERIAL ANALYSIS PASS

UNIT OF MEASUREMENT: Filth and Foreign Matter (%)

| ANALYTE | RESULT | LOD | LLOQ | ACTION LEVEL | | ANALYTE | RESULT | LOD | LLOQ | ACTION LEVEL | |
|----------|--------|-----|------|--------------|------|---------|--------|-----|------|--------------|------|
| IF RH ME | ND | 0.0 | 0.0 | 3.000 | Pass | IFM | ND | 0.0 | 0.0 | 25.00 | Pass |
| Mold | ND | 0.0 | 0.0 | 25.00 | Pass | SSCD | ND | 0.0 | 0.0 | 25.00 | Pass |

ADDITIONAL INFORMATION

Method: SOP-TECH-009 Sample Prepped 08/20/2020 15:01 Sample Approved 08/20/2020 15:08
 Instrument: Visual Inspection Sample Analyzed 08/20/2020 15:01

This report applies to the sample investigated and is not necessarily indicative of the quality or condition of apparently identical or similar products. This report provides technical results for a specific sample and the report shall not be altered, modified, supplemented, or abstracted in any manner. Any violation of these conditions renders the report and its results void.

All LQC samples required by state regulations were performed and met the acceptance criteria.

THIS COA WAS REVIEWED AND APPROVED ON 08/24/2020, BY THE FOLLOWING:



Cody Sheppard, PhD
Co-Scientific Director



Kathryn Riker
Quality Control Manager

