



Certificate of Analysis



| | | | |
|-----------------------------|---------------------------------|---------------------------|--------------------------|
| Sample Name: | AG 300mg Orange Tincture | FESA Lab Sample: | AUSGOLD-2200416-9 |
| Manufacturer: | Kazmira | Receipt Date: | 4/15/2020 |
| Lot Number: | O20_245 | Receipt Condition: | Ambient Temperature |
| Sample Serving Size: | N/A | Login Date: | 4/16/2020 |
| Description: | Tincture | Date Started: | 4/16/2020 |
| Manufacture Date: | 4/10/2020 | | |

| Analysis | LOQ (%) | Mass (%) | Mass (mg/g) | Mass (mg/unit) |
|--|----------------|--------------|--------------|----------------|
| Cannabinoid Profile | | | | |
| CBDV | 0.00025 | ND | ND | ND |
| CBG | 0.00025 | ND | ND | ND |
| CBD | 0.00025 | 1.072 | 10.72 | 321.52 |
| CBDA | 0.00025 | ND | ND | ND |
| CBN | 0.00025 | ND | ND | ND |
| Delta 9-THC | 0.00025 | ND | ND | ND |
| Delta 8-THC | 0.00025 | ND | ND | ND |
| CBC | 0.00025 | ND | ND | ND |
| THCA | 0.00025 | ND | ND | ND |
| Total Cannabinoids | | 1.072 | 10.72 | 321.52 |
| Total THC (THC + (THCa x 0.877)) | | ND | ND | ND |
| Total CBD (CBD+ (CBDA x 0.877)) | | 1.072 | 10.72 | 321.52 |

1 Unit = 30mL

Pesticide-Residue Analysis


| | LOQ (ppm) | Limit (ppm) | Result (ppm) | Pass / Fail |
|--------------------|-----------|-------------|--------------|-------------|
| Abamectin | 0.01 | 0.10 | ND | Pass |
| Bifenazate | 0.01 | 0.10 | ND | Pass |
| Bifenthrin | 0.01 | 3.00 | ND | Pass |
| Boscalid | 0.01 | 0.10 | ND | Pass |
| Ethoprophos | 0.05 | 0.10 | ND | Pass |
| Etoxazole | 0.01 | 0.10 | ND | Pass |
| Imidacloprid | 0.01 | 5.00 | ND | Pass |
| Myclobutanil | 0.01 | 0.10 | ND | Pass |
| Piperonyl Butoxide | 0.01 | 3.00 | ND | Pass |
| Pyrethrins | 0.01 | 0.50 | ND | Pass |
| Spinosad | 0.01 | 0.10 | ND | Pass |
| Spiromesifen | 0.01 | 0.10 | ND | Pass |
| Spirotetramat | 0.01 | 0.10 | ND | Pass |

Residual Solvents

| | LOQ (ppm) | Limit (ppm) | Result (ppm) | Pass / Fail |
|--------------------|-----------|-------------|--------------|-------------|
| Acetone | 10 | 5000 | ND | Pass |
| Acetonitrile | 10 | 410 | ND | Pass |
| Benzene | 1 | 1 | ND | Pass |
| Chloroform | 1 | 1 | ND | Pass |
| 1,2-Dichloroethane | 1 | 1 | ND | Pass |
| Ethanol | 10 | 5000 | ND | Pass |



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Residual Solvents

| | LOQ (ppm) | Limit (ppm) | Result (ppm) | Pass / Fail |
|--------------------|-----------|-------------|--------------|-------------|
| Ethyl Acetate | 10 | 5000 | ND | Pass |
| Ethyl Ether | 10 | 5000 | ND | Pass |
| Ethylene Oxide | 1 | 1 | ND | Pass |
| Heptane | 10 | 5000 | ND | Pass |
| n-Hexane | 10 | 290 | ND | Pass |
| Isopropanol | 10 | 5000 | ND | Pass |
| Methanol | 10 | 3000 | ND | Pass |
| Methylene Chloride | 1 | 1 | ND | Pass |
| Pentane | 10 | 5000 | ND | Pass |
| Toluene | 10 | 890 | ND | Pass |
| Trichloroethylene | 1 | 1 | ND | Pass |
| Xylenes | 10 | 2170 | ND | Pass |

Heavy Metals

| | LOQ (ppm) | Limit (ppm) | Result (ppm) | Pass / Fail |
|---------|-----------|-------------|--------------|-------------|
| Arsenic | 0.005 | 0.200 | ND | Pass |
| Cadmium | 0.005 | 0.200 | ND | Pass |
| Lead | 0.005 | 0.500 | ND | Pass |
| Mercury | 0.005 | 0.100 | ND | Pass |

Mycotoxins


| | LOQ (ppm) | Limit (ppm) | Result (ppm) | Pass / Fail |
|--------------|-----------|-------------|--------------|-------------|
| Aflatoxin B1 | 0.02 | 0.02 | ND | Pass |
| Aflatoxin B2 | 0.02 | 0.02 | ND | Pass |
| Aflatoxin G1 | 0.02 | 0.02 | ND | Pass |
| Aflatoxin G2 | 0.02 | 0.02 | ND | Pass |
| Ochratoxin A | 0.02 | 0.02 | ND | Pass |

Microbials

| | Result (CFU/g) | Pass / Fail |
|--------------------------------|----------------|-------------|
| Aerobic Plate Count | | N/A |
| Escherichia Coli and Coliforms | Absent / 1g | Pass |
| Salmonella | Absent / 1g | Pass |
| Yeast and Mold Count | Absent / 1g | Pass |



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Method References: **Testing Location**

Cannabinoid Profile (UNODC) FESALabs - Santa Ana, CA

Official Methods of Analysis, Method 2018.11.AOAC INTERNATIONAL, (Modified), Lukas Vaclavik, Frantisek Benes, Alex Krmela, Veronika Svobodova, Jana Hajsolva, and Katerina Mastovska, "Quantification of Cannabinoids in Cannabis Dried Plant Materials, Concentrates, and Oils Liquid Chromatography-Diode Array Detection Technique with Optional Mass Spectrometric Detection," First Action Method, Journal of AOAC International, Future Issue

United Nations Office on Drugs and Crime - Recommended methods for identification and analysis of cannabis and cannabis products

Multi-Residue Analysis - (AOAC_200701) FESALabs - Santa Ana, CA

Official Methods of Analysis, AOAC Official Method 2007.01, Pesticide Residues in Foods by Acetonitrile Extraction and Partitioning with Magnesium Sulfate, AOAC INTERNATIONAL (modified).
 CEN Standard Method EN 15662: Food of plant origin - Determination of pesticide residues using GC-MS and/or LC-MS/MS following acetonitrile extraction/ partitioning and clean-up by dispersive SPE - QuEChERS method.
 List of the tested pesticides and their limits of quantification (LOQs) are available upon request.

Residual Solvents Analysis - 20 compounds (USP_467) FESALabs - Santa Ana, CA

USP current revision, Chapter 62.
 United States Pharmacopeia, 38nd Rev. - National Formulary 33th Ed., Method <467>, USP Convention, Inc., Rockville, MD (2015). (Modified).

Metals Analysis - 4 elements (EPA_200.8) FESALabs - Santa Ana, CA

Methods for the Determination of Metals in Environmental Standards - Supplement 1, EPA-600/R-94-111, May 1994.
 "Determination of Metals and Trace Elements in Water and Wastes by Inductively Coupled Plasma-Mass Spectrometry", USEPA Method 200.8, Revision 5.1, EMMC Version.

Mycotoxins Analysis - 5 compounds (FDA_MYC) FESALabs - Santa Ana, CA

Determination of Mycotoxins in Corn, Peanut Butter and Wheat Flour Using Stable Isotope Dilution Assay (SIDA) and Liquid Chromatography-Tandem Mass Spectrometry (LC-MS/MS), (Modified)

Aerobic Plate Count (USP_61) FESALabs - Santa Ana, CA

USP current revision, Chapter 61.
 To satisfy the requirements of the USP, the suitability of Test Method must be completed on each matrix.
 **Based on the suitability of the test method results, conditions stipulated are adequate for detecting the presence of the specified microorganism.

E. Coli (USPE_62) FESALabs - Santa Ana, CA

USP current revision, Chapter 62.
 To satisfy the requirements of the USP, the suitability of Test Method must be completed on each matrix.
 **Based on the suitability of the test method results, conditions stipulated are adequate for detecting the presence of the specified microorganism.

Yeast and Mold Count (AOAC_201405) FESALabs - Santa Ana, CA


Official Methods of Analysis, Method 2014.05.AOAC INTERNATIONAL

Salmonella enterica USP (USPS_62) FESALabs - Santa Ana, CA

USP current revision, Chapter 62.
 To satisfy the requirements of the USP, the suitability of Test Method must be completed on each matrix.
 **Based on the suitability of the test method results, conditions stipulated are adequate for detecting the presence of the specified microorganism.



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Testing Location:

FESALabs

2002 S. Grand Ave., Suite B
Santa Ana, CA 92705
714-549-5050

Nader Nasralla - Lab Manager

ND = not detected or less than limit of quantitation (LOQ). LOQ for cannabinoid profile analysis is 0.00025%.

This test report is responsible for the tested samples only and is for research use only. This certificate of analysis shall not be reproduced, except in its entirety, without the written approval of FESALabs.