

## Certificate of Analysis- Pure Analytics InfoTest™

**Customer Name:** *Market & Mission*  
**Sample Name:** *Bloom Farms- Balance CBD Tincture 300 mg (LOT: F3A115)*  
**Lab Sample I.D.:** *MKT0022-2*  
**Sample Type:** *Edible*  
**Date Received:** *12/26/2019*  
**Date Tested:** *12/27-12/30/2019*  
**Date Reported:** *12/30/2019*

**QC Batch(es):** *PA16086,096,98,100,102,108-110*

**Tests Performed:** *Cannabinoids, Micro (S,E,A), Pesticides, Terpenes, RSA, Filth & Foreign, Heavy Metals, Mycotoxins*

| Results Summary:              |               | Microbiology Analysis: |           |
|-------------------------------|---------------|------------------------|-----------|
| Item                          | Report Status | Analysis               | PASS/FAIL |
| Overall Sample                | PASS          | E. coli                | PASS      |
| Cannabinoids                  | NA            | Salmonella             | PASS      |
| Pesticides                    | PASS          | Aspergillus            | PASS      |
| Residual Solvent              | PASS          | nigers                 | PASS      |
| Moisture                      | NT            | terreus                | PASS      |
| Microbiological Contamination | PASS          | flavus                 | PASS      |
| Filth & Foreign               | PASS          | fumigatus              | PASS      |
| Mycotoxins                    | PASS          | Water Activity         | NT        |
| Heavy Metals                  | PASS          | Moisture %             | NT        |

Methods: Aspergillus, Standard Methods; Total Coliform/E.coli- AOAC 991.14; Aspergillus Salmonella- OMA 2014.01;

### Cannabinoid Analysis:

| THC   | THCA  | d-8 THC | CBD   | CBDA  | CBN   | CBC   | CBCA  | CBG   | CBGA  | CBL   | THCV  | THCVA | CBDV  | CBDVA | Total THC* | Total |
|-------|-------|---------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|------------|-------|
| % wt. | % wt. | % wt.   | % wt. | % wt. | % wt. | % wt. | % wt. | % wt. | % wt. | % wt. | % wt. | % wt. | % wt. | % wt. | % wt.      | % wt. |
| ND    | ND    | ND      | 1.02% | ND    | ND    | 0.06% | 0.70% | 0.03% | ND    | ND    | ND    | ND    | ND    | ND    | NA         | 1.81% |
| mg/g  | mg/g  | mg/g    | mg/g  | mg/g  | mg/g  | mg/g  | mg/g  | mg/g  | mg/g  | mg/g  | mg/g  | mg/g  | mg/g  | mg/g  | mg/g       | mg/g  |
| NA    | NA    | NA      | NA    | NA    | NA    | NA    | NA    | NA    | NA    | NA    | NA    | NA    | NA    | NA    | NA         | NA    |
| mg/mL | mg/mL | mg/mL   | mg/mL | mg/mL | mg/mL | mg/mL | mg/mL | mg/mL | mg/mL | mg/mL | mg/mL | mg/mL | mg/mL | mg/mL | mg/mL      | mg/mL |
| ND    | ND    | ND      | 10.24 | ND    | ND    | 0.58  | 6.95  | 0.28  | ND    | ND    | ND    | ND    | ND    | ND    | NA         | 18.05 |

Flowers Reported on % DRY WT. Basis; \*Total THC=(THCA \* 0.877) + THC + d-8 THC  
 Method: Extraction by Methanol, IPA, Acetonitrile or Ethanol with sonication and HPLC-DAD confirmation analysis as needed by GC-FID analysis

### Residual Solvent:

Method: Full Evaporation Technique by GC-MS-FID/ECD.

#### CA CATEGORY 1

| Compound           | (ug/g) | Inhal. Action Lim. (ug/g) | Other Action Lim. (ug/g) | PASS/FAIL | LOQ (ug/g) | LOD (ug/g) | NOTES: |
|--------------------|--------|---------------------------|--------------------------|-----------|------------|------------|--------|
| 1,2-Dichloroethane | ND     | 1.0                       | 1.0                      | PASS      | 1.00       | 0.80       |        |
| Benzene            | ND     | 1.0                       | 1.0                      | PASS      | 1.00       | 0.20       |        |
| Chloroform         | ND     | 1.0                       | 1.0                      | PASS      | 1.00       | 0.20       |        |
| Ethylene Oxide     | ND     | 1.0                       | 1.0                      | PASS      | 1.00       | 0.80       |        |
| Methylene chloride | ND     | 1.0                       | 1.0                      | PASS      | 1.00       | 0.80       |        |
| Trichloroethylene  | ND     | 1.0                       | 1.0                      | PASS      | 1.00       | 0.20       |        |

#### CA CATEGORY 2

| Compound                    | (ug/g)     | Inhal. Action Lim. (ug/g) | Other Action Lim. (ug/g) | PASS/FAIL | LOQ (ug/g) | LOD (ug/g) | NOTES: |
|-----------------------------|------------|---------------------------|--------------------------|-----------|------------|------------|--------|
| n-Butane                    | ND         | 5000                      | 5000                     | PASS      | 2.0        | 0.50       |        |
| n-Pentane                   | ND         | 5000                      | 5000                     | PASS      | 2.0        | 0.50       |        |
| Acetone                     | ND         | 5000                      | 5000                     | PASS      | 2.0        | 0.50       |        |
| Ethanol                     | 4.2        | 5000                      | 5000                     | PASS      | 2.0        | 0.50       |        |
| n-Hexane                    | ND         | 290                       | 290                      | PASS      | 2.0        | 0.50       |        |
| Methanol                    | ND         | 3000                      | 3000                     | PASS      | 2.0        | 0.50       |        |
| 2-Propanol                  | ND         | 5000                      | 5000                     | PASS      | 2.0        | 0.50       |        |
| Acetonitrile                | ND         | 410                       | 410                      | PASS      | 5.0        | 1.00       |        |
| Ethyl acetate               | ND         | 5000                      | 5000                     | PASS      | 2.0        | 0.50       |        |
| n-Heptane                   | ND         | 5000                      | 5000                     | PASS      | 2.0        | 0.50       |        |
| Ether                       | ND         | 5000                      | 5000                     | PASS      | 2.0        | 0.50       |        |
| Toluene                     | ND         | 890                       | 890                      | PASS      | 2.0        | 0.50       |        |
| Total xylenes               | ND         | 2170                      | 2170                     | PASS      | 2.0        | 0.50       |        |
| Propane                     | ND         | 5000                      | 5000                     | PASS      | 2.0        | 0.50       |        |
| <b>Total Cat. 1 &amp; 2</b> | <b>4.2</b> |                           |                          |           |            |            |        |

### Heavy Metals:

block. Analysis using graphite furnace, atomic fluorescence spectroscopy, atomic absorption decomposition analysis

| Compound | (ug/g) | Inhal. Action Lim. (ug/g) | Other Action Lim. (ug/g) | PASS/FAIL | LOQ (ug/g) | LOD (ug/g) | NOTES: |
|----------|--------|---------------------------|--------------------------|-----------|------------|------------|--------|
| Mercury  | ND     | 0.1                       | 3                        | PASS      | 0.03       | 0.006      |        |
| Lead     | 0.32   | 0.5                       | 0.5                      | PASS      | 0.10       | 0.020      |        |
| Cadmium  | ND     | 0.2                       | 0.5                      | PASS      | 0.02       | 0.004      |        |
| Arsenic  | ND     | 0.2                       | 1.5                      | PASS      | 0.20       | 0.040      |        |

### Homogeneity Testing:

Relative Standard Deviation **NT**  
 Homogeneity Result **NT**

### Label Claim Verification:

mg THC mg CBD  
 Package Claim Verification Results  
 % Difference **NA NA**  
 PASS/FAIL

### Filth and Foreign Material:

Inspection Results **PASS**  
 Observations

### Testing performed by:

Pure Analytics  
 5468 Skylane Blvd Ste 102  
 Santa Rosa, CA 95403  
 CA License #: C8-0000018-LIC

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ND: Not Detected      NA: Not Applicable; NT: Test Not Performed

Approved by: *Samantha J. Miller*

## Certificate of Analysis- Pure Analytics InfoTest™

**Customer Name:** Market & Mission

**Sample Name:** Bloom Farms- Balance CBD Tincture 300 mg (LOT: F3A115)

**Lab Sample I.D.:** MKT0022-2

**Pesticides Analysis:**

*Method: Acetone extraction with sonication, dSPE clean-up, LCMSMS and GC-ECD analysis*

| Compound             | Result (ug/g) | OREGON Action Lim. (ug/g) | PASS/ FAIL | LOQ (ug/g) | LOD (ug/g) | NOTES |
|----------------------|---------------|---------------------------|------------|------------|------------|-------|
| <b>CA CATEGORY I</b> |               |                           |            |            |            |       |
| Aldicarb             | ND            | 0.40                      | PASS       | 0.020      | 0.005      |       |
| Carbofuran           | ND            | 0.20                      | PASS       | 0.010      | 0.001      |       |
| Chlordane            | ND            | 0.10                      | PASS       | 0.010      | 0.005      |       |
| Chlorfenapyr         | ND            | 1.00                      | PASS       | 0.100      | 0.020      |       |
| Chlorpyrifos         | ND            | 0.20                      | PASS       | 0.100      | 0.020      |       |
| Coumaphos            | ND            | 0.10                      | PASS       | 0.100      | 0.005      |       |
| Daminozide           | ND            | 1.00                      | PASS       | 0.100      | 0.010      |       |
| Dichlorvos           | ND            | 1.00                      | PASS       | 0.010      | 0.001      |       |
| Dimethoate           | ND            | 0.20                      | PASS       | 0.100      | 0.020      |       |
| Ethoprop             | ND            | 0.20                      | PASS       | 0.100      | 0.020      |       |
| Etofenprox           | ND            | 0.40                      | PASS       | 0.010      | 0.001      |       |
| Fenoxycarb           | ND            | 0.20                      | PASS       | 0.020      | 0.005      |       |
| Fipronil             | ND            | 0.40                      | PASS       | 0.020      | 0.005      |       |
| Imazilil             | ND            | 0.20                      | PASS       | 0.100      | 0.005      |       |
| Methiocarb           | ND            | 0.20                      | PASS       | 0.100      | 0.005      |       |
| Parathion-methyl     | ND            | 0.20                      | PASS       | 0.100      | 0.010      |       |
| Mevinphos            | ND            | 0.10                      | PASS       | 0.100      | 0.050      |       |
| Paclbutrazole        | ND            | 0.40                      | PASS       | 0.100      | 0.005      |       |
| Propoxur             | ND            | 0.20                      | PASS       | 0.010      | 0.001      |       |
| Spiroxamine          | ND            | 0.40                      | PASS       | 0.010      | 0.001      |       |
| Thiacloprid          | ND            | 0.20                      | PASS       | 0.020      | 0.005      |       |

| Compound              | Result (ug/g) | OREGON Action Lim. (ug/g) | PASS/ FAIL | LOQ (ug/g) | LOD (ug/g) | NOTES |
|-----------------------|---------------|---------------------------|------------|------------|------------|-------|
| <b>CA CATEGORY II</b> |               |                           |            |            |            |       |
| Abamectin             | ND            | 0.4                       | PASS       | 0.10       | 0.001      |       |
| Acephate              | ND            | 0.4                       | PASS       | 0.10       | 0.02       |       |
| Acequinocyl           | ND            | 2.0                       | PASS       | 0.02       | 0.02       |       |
| Acetamidrid           | ND            | 0.2                       | PASS       | 0.02       | 0.02       |       |
| Azoxystrobin          | ND            | 0.2                       | PASS       | 0.02       | 0.01       |       |
| Bifenazate            | ND            | 0.2                       | PASS       | 0.02       | 0.001      |       |
| Bifenthrin            | ND            | 0.2                       | PASS       | 0.10       | 0.005      |       |
| Boscalid              | ND            | 0.4                       | PASS       | 0.02       | 0.01       |       |
| Captan                | ND            | 0.7                       | PASS       | 0.01       | 0.005      |       |
| Cyfluthrin            | ND            | 1.0                       | PASS       | 0.10       | 0.001      |       |
| Cypermethrin          | ND            | 1.0                       | PASS       | 0.10       | 0.05       |       |
| Carbaryl              | ND            | 0.2                       | PASS       | 0.02       | 0.001      |       |
| Chlorantraniliprole   | ND            | 0.2                       | PASS       | 0.02       | 0.01       |       |
| Clofentezine          | ND            | 0.2                       | PASS       | 0.02       | 0.001      |       |
| Diazinon              | ND            | 0.2                       | PASS       | 0.02       | 0.001      |       |
| Dimethomorph          | ND            | 2.0                       | PASS       | 0.02       | 0.001      |       |
| Etoxazole             | ND            | 0.2                       | PASS       | 0.02       | 0.005      |       |
| Fenhexamid            | ND            | 0.1                       | PASS       | 0.01       | 0.001      |       |
| Fenpyroximate         | ND            | 0.4                       | PASS       | 0.02       | 0.01       |       |
| Fonicamid             | ND            | 1.0                       | PASS       | 0.02       | 0.001      |       |
| Fludoxonil            | ND            | 0.4                       | PASS       | 0.10       | 0.02       |       |
| Hexythiazox           | ND            | 1.0                       | PASS       | 0.02       | 0.01       |       |
| Imidacloprid          | ND            | 0.4                       | PASS       | 0.10       | 0.02       |       |
| Kresoxim-methyl       | ND            | 0.4                       | PASS       | 0.02       | 0.02       |       |
| Malathion             | ND            | 0.2                       | PASS       | 0.20       | 0.001      |       |
| Metalaxyl             | ND            | 0.2                       | PASS       | 0.02       | 0.01       |       |
| Methomyl              | ND            | 0.4                       | PASS       | 0.02       | 0.001      |       |
| Myclobutanil          | ND            | 0.2                       | PASS       | 0.005      | 0.001      |       |
| Naled                 | ND            | 0.5                       | PASS       | 0.10       | 0.02       |       |
| Oxamyl                | ND            | 1.0                       | PASS       | 0.05       | 0.01       |       |
| Pentachloronitrobenz. | ND            | 0.1                       | PASS       | 0.10       | 0.02       |       |
| Permethrin            | ND            | 0.2                       | PASS       | 0.025      | 0.005      |       |
| Phosmet               | ND            | 0.2                       | PASS       | 0.02       | 0.02       |       |
| Piperonyl butoxide    | ND            | 2.0                       | PASS       | 0.005      | 0.001      |       |
| Prallethrin           | ND            | 0.2                       | PASS       | 0.02       | 0.01       |       |
| Propiconazole         | ND            | 0.4                       | PASS       | 0.02       | 0.01       |       |
| Pyrethrins            | ND            | 1.0                       | PASS       | 0.07       | 0.01       |       |
| Pyridaben             | ND            | 0.2                       | PASS       | 0.02       | 0.001      |       |
| Spinetoram            | ND            | 0.1                       | PASS       | 0.07       | 0.005      |       |
| Spinosad              | ND            | 0.2                       | PASS       | 0.10       | 0.02       |       |
| Spiromesifen          | ND            | 0.2                       | PASS       | 0.10       | 0.02       |       |
| Spirotetramat         | ND            | 0.2                       | PASS       | 0.10       | 0.02       |       |
| Tebuconazole          | ND            | 0.4                       | PASS       | 0.10       | 0.02       |       |
| Trifloxystrobin       | ND            | 0.2                       | PASS       | 0.01       | 0.005      |       |
| Thiamethoxam          | ND            | 0.2                       | PASS       | 0.10       | 0.01       |       |

**Mycotoxin Analysis:**

*Method: Acetone extraction with sonication, dSPE clean-up, LCMSMS analysis*

| Compound        | Result (ug/kg) | Action lim. (ug/kg) | PASS/ FAIL | LOQ (ug/kg) | LOD (ug/kg) | NOTES |
|-----------------|----------------|---------------------|------------|-------------|-------------|-------|
| Aflatoxin B1    | ND             | NA                  | NA         | 2.0         | 0.5         |       |
| Aflatoxin B2    | ND             | NA                  | NA         | 2.0         | 0.5         |       |
| Aflatoxin G1    | ND             | NA                  | NA         | 2.0         | 0.5         |       |
| Aflatoxin G2    | ND             | NA                  | NA         | 2.0         | 0.5         |       |
| Total Aflatoxin | ND             | <20 ug/kg           | PASS       | 2.0         | 0.5         |       |
| Ochratoxin A    | ND             | <20 ug/kg           | PASS       | 2.0         | 0.5         |       |

**Testing performed by:**

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## Certificate of Analysis- Pure Analytics InfoTest™

**Customer Name:** *Market & Mission*
**Sample Name:** *Bloom Farms- Balance CBD Tincture 300 mg (LOT: F3A115)*
**Lab Sample I.D.:** *MKT0022-2*
**Terpene Analysis:**
*Method: Methanol Extraction with Sonication and GC-FID Analysis*

| Compound        | (ug/kg) | Action lim. (ug/kg) | PASS/ FAIL | LOQ (ug/kg) | LOD (ug/kg) | NOTES |
|-----------------|---------|---------------------|------------|-------------|-------------|-------|
| α-Pinene        | ND      | NA                  | NA         | 0.01        | 0.005       |       |
| Camphene        | ND      | NA                  | NA         | 0.01        | 0.005       |       |
| β-Pinene        | ND      | NA                  | NA         | 0.01        | 0.005       |       |
| β-Myrcene       | ND      | NA                  | NA         | 0.01        | 0.005       |       |
| 3-Carene        | ND      | NA                  | NA         | 0.01        | 0.005       |       |
| R-Limonene      | ND      | NA                  | NA         | 0.01        | 0.005       |       |
| Eucalyptol      | ND      | NA                  | NA         | 0.01        | 0.005       |       |
| Ocimene         | ND      | NA                  | NA         | 0.01        | 0.005       |       |
| γ-Terpinene     | ND      | NA                  | NA         | 0.01        | 0.005       |       |
| Terpinolene     | ND      | NA                  | NA         | 0.01        | 0.005       |       |
| Linalool        | ND      | NA                  | NA         | 0.01        | 0.005       |       |
| Fenchol         | ND      | NA                  | NA         | 0.01        | 0.005       |       |
| (+)-Pulegone    | ND      | NA                  | NA         | 0.01        | 0.005       |       |
| Menthol         | ND      | NA                  | NA         | 0.01        | 0.005       |       |
| Borneol         | ND      | NA                  | NA         | 0.01        | 0.005       |       |
| α-Terpineol     | ND      | NA                  | NA         | 0.01        | 0.005       |       |
| Geraniol        | ND      | NA                  | NA         | 0.01        | 0.005       |       |
| β-Caryophyllene | ND      | NA                  | NA         | 0.01        | 0.005       |       |
| α-Humulene      | ND      | NA                  | NA         | 0.01        | 0.005       |       |
| Valencene       | ND      | NA                  | NA         | 0.01        | 0.005       |       |
| Farnesene       | ND      | NA                  | NA         | 0.01        | 0.005       |       |
| trans-Nerolidol | ND      | NA                  | NA         | 0.01        | 0.005       |       |
| cis-Nerolidol   | ND      | NA                  | NA         | 0.01        | 0.005       |       |
| Guaiol          | ND      | NA                  | NA         | 0.01        | 0.005       |       |
| α-Bisabolol     | ND      | NA                  | NA         | 0.01        | 0.005       |       |

| Compound       | ug/kg        | Action lim. (ug/kg) | PASS/ FAIL | LOQ (ug/kg) | LOD (ug/kg) | NOTES |
|----------------|--------------|---------------------|------------|-------------|-------------|-------|
| Eicosane       | ND           | NA                  | NA         | 0.01        | 0.005       |       |
| Camphor        | ND           | NA                  | NA         | 0.01        | 0.005       |       |
| L-Fenchone     | ND           | NA                  | NA         | 0.01        | 0.005       |       |
| Sabinene       | ND           | NA                  | NA         | 0.01        | 0.005       |       |
| β-Caryoph. Ox. | ND           | NA                  | NA         | 0.01        | 0.005       |       |
| Phytol         | ND           | NA                  | NA         | 0.01        | 0.005       |       |
| α-Phellandrene | ND           | NA                  | NA         | 0.01        | 0.005       |       |
| <b>Total %</b> | <b>0.00%</b> |                     |            |             |             |       |

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Pure Analytics

5468 Skylane Blvd Ste 102

Santa Rosa, CA 95403

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