

## Certificate of Analysis- Pure Analytics InfoTest™

**Customer Name:** Bloom Farms CBD  
**Sample Name:** Natural  
**Sample Batch I.D.:** 5050 - NA03  
**Lab Sample I.D.:** MKT0033-2  
**Sample Type:** Concentrate  
**Date Received:** 7/13/2020  
**Date Tested:** 7/14-7/16/2020  
**Date Reported:** 7/16/2020

**QC Batch(es):** PA16544,545,546,547,552,554,576  
**Tests Performed:** Cannabinoids, Micro (S,E,A), Pesticides, RSA, Filth & Foreign Material, Mycotoxins, Heavy Metals

**Results Summary:**

| Item             | Report Status |
|------------------|---------------|
| Cannabinoids     | NA            |
| Pesticides       | PASS          |
| Residual Solvent | PASS          |
| Moisture         | NT            |
| Microbiology     | PASS          |
| Water Activity   | NT            |
| Filth & Foreign  | PASS          |
| Mycotoxins       | PASS          |
| Heavy Metals     | PASS          |
| Terpenes         | NT            |



**Cannabinoid Analysis:**

| THC   | THCA  | d-8 THC | CBD    | CBDA  | CBN   | CBC    | CBCA  | CBG   | CBGA  | CBL   | THCV  | THCVA | CBDV  | CBDVA | Total THC* | Total CBD** | Total  |
|-------|-------|---------|--------|-------|-------|--------|-------|-------|-------|-------|-------|-------|-------|-------|------------|-------------|--------|
| % wt. | % wt. | % wt.   | % wt.  | % wt. | % wt. | % wt.  | % wt. | % wt. | % wt. | % wt. | % wt. | % wt. | % wt. | % wt. | % wt.      | % wt.       | % wt.  |
| ND    | ND    | ND      | 47.46% | 2.57% | 6.39% | 10.85% | ND    | 1.67% | ND    | ND    | ND    | ND    | 1.71% | ND    | NA         | 49.72%      | 70.65% |
| 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        | mg/g   |
| ND    | ND    | ND      | 474.65 | 25.68 | 63.92 | 108.49 | ND    | 16.75 | ND    | ND    | ND    | ND    | 17.05 | ND    | NA         | 497.17      | 706.53 |
| 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       | mg/mL  |
| NA    | NA    | NA      | NA     | NA    | NA    | NA     | NA    | NA    | NA    | NA    | NA    | NA    | NA    | NA    | NA         | NA          | NA     |

Flowers Reported on % DRY WT. Basis; \*Total THC=(THCA \* 0.877) + THC + d-8 THC; \*\*Total CBD=(CBDA \* 0.877) + CBD  
 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

| 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                     | 40.7         | 5000                      | 5000                     | PASS      | 2.0        | 0.50       |        |
| Ethanol                     | 28.2         | 5000                      | 5000                     | PASS      | 2.0        | 0.50       |        |
| n-Hexane                    | ND           | 290                       | 290                      | PASS      | 2.0        | 0.50       |        |
| Methanol                    | 31.8         | 3000                      | 3000                     | PASS      | 2.0        | 0.50       |        |
| 2-Propanol                  | 11.9         | 5000                      | 5000                     | PASS      | 2.0        | 0.50       |        |
| Acetonitrile                | ND           | 410                       | 410                      | PASS      | 5.0        | 1.00       |        |
| Ethyl acetate               | 28.2         | 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>140.9</b> |                           |                          |           |            |            |        |

**Heavy Metals:**

Method: Acid digestion in heated 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     | ND     | 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      |        |

**Microbiology Analysis:**

| Analysis    | PASS/FAIL | Analysis           | CFU/g |
|-------------|-----------|--------------------|-------|
| E. coli     | PASS      | APC                | NA    |
| Salmonella  | PASS      | Total coliform     | NA    |
| Aspergillus | PASS      | Pseudomonas        | NA    |
| nigers      | PASS      | terreus            | PASS  |
| flavus      | PASS      | fumigatus          | PASS  |
|             |           | Total yeast & mold | NA    |
|             |           | Enterobacteriaceae | NA    |

**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:** Bloom Farms CBD

**Sample Name:** Natural

**Lab Sample I.D.:** MKT0033-2

**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             | 0.03          | 0.20                      | PASS       | 0.100      | 0.020      | <LOQ  |
| 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      |       |
| Imazalil             | 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      |       |
| Paclbutrazol         | 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       |       |
| Acetamiprid           | 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      |       |
| Etoazole              | 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       |       |
| Flonicamid            | ND            | 1.0                       | PASS       | 0.02       | 0.001      |       |
| Fludioxonil           | 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    | 0.04          | 2.0                       | PASS       | 0.005      | 0.001      |       |
| Prallethrin           | ND            | 0.2                       | PASS       | 0.02       | 0.01       |       |
| Propiconazole         | 0.02          | 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                  | PASS       | 2.0         | 0.5         |       |
| Aflatoxin B2    | ND             | NA                  | PASS       | 2.0         | 0.5         |       |
| Aflatoxin G1    | ND             | NA                  | PASS       | 2.0         | 0.5         |       |
| Aflatoxin G2    | ND             | NA                  | PASS       | 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         |       |

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## Certificate of Analysis- Pure Analytics InfoTest™

**Customer Name:** *Bloom Farms CBD*
**Sample Name:** *Natural*
**Lab Sample I.D.:** *MKT0033-2*
**Terpene Analysis:**
*Method: Methanol Extraction with Sonication and GC-FID Analysis*

| Compound        | % wt.     | Action lim. (ug/kg) | PASS/ FAIL | LOQ (ug/kg) | LOD (ug/kg) | NOTES |
|-----------------|-----------|---------------------|------------|-------------|-------------|-------|
| α-Pinene        | NA        | NA                  | NA         | 0.01        | 0.005       |       |
| Camphene        | NA        | NA                  | NA         | 0.01        | 0.005       |       |
| β-Pinene        | NA        | NA                  | NA         | 0.01        | 0.005       |       |
| β-Myrcene       | NA        | NA                  | NA         | 0.01        | 0.005       |       |
| 3-Carene        | NA        | NA                  | NA         | 0.01        | 0.005       |       |
| R-Limonene      | NA        | NA                  | NA         | 0.01        | 0.005       |       |
| Eucalyptol      | NA        | NA                  | NA         | 0.01        | 0.005       |       |
| Ocimene         | NA        | NA                  | NA         | 0.01        | 0.005       |       |
| γ-Terpinene     | NA        | NA                  | NA         | 0.01        | 0.005       |       |
| Terpinolene     | NA        | NA                  | NA         | 0.01        | 0.005       |       |
| Linalool        | NA        | NA                  | NA         | 0.01        | 0.005       |       |
| Fenchol         | NA        | NA                  | NA         | 0.01        | 0.005       |       |
| (+)-Pulegone    | NA        | NA                  | NA         | 0.01        | 0.005       |       |
| Menthol         | NA        | NA                  | NA         | 0.01        | 0.005       |       |
| Borneol         | NA        | NA                  | NA         | 0.01        | 0.005       |       |
| α-Terpineol     | NA        | NA                  | NA         | 0.01        | 0.005       |       |
| Geraniol        | NA        | NA                  | NA         | 0.01        | 0.005       |       |
| β-Caryophyllene | NA        | NA                  | NA         | 0.01        | 0.005       |       |
| α-Humulene      | NA        | NA                  | NA         | 0.01        | 0.005       |       |
| Valencene       | NA        | NA                  | NA         | 0.01        | 0.005       |       |
| Farnesene       | NA        | NA                  | NA         | 0.01        | 0.005       |       |
| trans-Nerolidol | NA        | NA                  | NA         | 0.01        | 0.005       |       |
| cis-Nerolidol   | NA        | NA                  | NA         | 0.01        | 0.005       |       |
| Guaiol          | NA        | NA                  | NA         | 0.01        | 0.005       |       |
| α-Bisabolol     | NA        | NA                  | NA         | 0.01        | 0.005       |       |
| Eicosane        | NA        | NA                  | NA         | 0.01        | 0.005       |       |
| Camphor         | NA        | NA                  | NA         | 0.01        | 0.005       |       |
| L-Fenchone      | NA        | NA                  | NA         | 0.01        | 0.005       |       |
| Sabinene        | NA        | NA                  | NA         | 0.01        | 0.005       |       |
| β-Caryoph. Ox.  | NA        | NA                  | NA         | 0.01        | 0.005       |       |
| Phytol          | NA        | NA                  | NA         | 0.01        | 0.005       |       |
| a-Phellandrene  | NA        | NA                  | NA         | 0.01        | 0.005       |       |
| <b>Total %</b>  | <b>NA</b> |                     |            |             |             |       |

**Filth & Foreign Material Inspection:**
*Filth & Foreign Material by method 89370.96 using stereo microscope*
**Filth & Foreign Inspection**

Observations:

PASS/

FAIL

PASS

**Water Activity Analysis:**
*Water Activity by method 89370.98 on a Novasina LabTouch-aw*

| Water Activity | Result | Action Limit (Aw) |       | PASS/ FAIL |
|----------------|--------|-------------------|-------|------------|
|                |        | Inhale            | Other |            |
| Aw             | NA     | 0.65              | 0.85  | NA         |

**Moisture Content Analysis:**
*Moisture Content method by method 89370.98 using ThermoFisher programmable oven*

| Moisture Content | Result | Action Limit (%) | PASS/ FAIL |
|------------------|--------|------------------|------------|
| % Moisture       | NA     | 13.0             | NA         |

**Vitamin E Acetate Analysis:**
*Method: Extraction by Acetone with sonication and analysis by HPLC-DAD*

| Compound          | Result | Action Limit (mg/kg) | LOQ (mg/kg) |
|-------------------|--------|----------------------|-------------|
| Vitamin E Acetate | NA     | NA                   | 5.00        |

**Testing performed by:**

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