

# Essentials Tincture

Sample ID: 1901CSALA0037.0133  
Strain: Essentials Tincture  
Matrix: Ingestible  
Type: Tincture  
Sample Size: 1 units; Batch: 0 units

Produced: N/A  
Collected: 01/04/2019  
Received: 01/04/2019  
Completed: 01/07/2019  
Batch#: 121618PBM30

Client  
**Papa and Barkley**  
Lic. #  
122 W. 4th St  
Eureka, CA 95501



## Summary

Pass

|                        |             |                   |
|------------------------|-------------|-------------------|
| <b>28.6232 mg/unit</b> | <b>Pass</b> | <b>Pass</b>       |
| Total Cannabinoids     | Pesticides  | Residual Solvents |
| <b>Pass</b>            | <b>Pass</b> | <b>Pass</b>       |
| Microbials             | Mycotoxins  | Heavy Metals      |

## Cannabinoids

Complete

Testing method: HPLC-SOP 101

| Analyte      | LOD     | LOQ     | Mass           | Mass           |
|--------------|---------|---------|----------------|----------------|
|              | mg/unit | mg/unit | mg/unit        | mg/g           |
| THCa         | 0.0003  | 0.0008  | ND             | ND             |
| Δ9-THC       | 0.0002  | 0.0008  | 1.0390         | 1.3300         |
| Δ8-THC       | 0.0004  | 0.0016  | ND             | ND             |
| THCV         | 0.0005  | 0.0016  | ND             | ND             |
| CBDa         | 0.0003  | 0.0008  | 0.2578         | 0.3300         |
| CBD          | 0.0002  | 0.0008  | 24.4203        | 31.2600        |
| CBDV         | 0.0005  | 0.0016  | 0.4218         | 0.5400         |
| CBN          | 0.0002  | 0.0008  | ND             | ND             |
| CBGa         | 0.0005  | 0.0016  | ND             | ND             |
| CBG          | 0.0005  | 0.0016  | 1.1327         | 1.4500         |
| CBC          | 0.0002  | 0.0008  | 1.3515         | 1.7300         |
| <b>Total</b> |         |         | <b>28.6232</b> | <b>36.6400</b> |

**1.0390 mg/unit**

Total THC

**24.6464 mg/unit**

Total CBD

1 Unit = 1 Capsule, 0.7812g; 9 servings per container; 9.4 mg/unit THC per container

## Terpenes

Complete

Testing method: HSGCMS-SOP 201

| Analyte             | LOD   | LOQ   | Mass         | Mass        |
|---------------------|-------|-------|--------------|-------------|
|                     | %     | %     | %            | mg/g        |
| β-Caryophyllene     | 0.002 | 0.006 | 0.019        | 0.19        |
| β-Myrcene           | 0.000 | 0.000 | 0.017        | 0.17        |
| Caryophyllene Oxide | 0.000 | 0.001 | 0.006        | 0.06        |
| α-Humulene          | 0.001 | 0.002 | 0.004        | 0.04        |
| δ-Limonene          | 0.000 | 0.001 | 0.003        | 0.03        |
| Eucalyptol          | 0.000 | 0.001 | 0.002        | 0.02        |
| Linalool            | 0.000 | 0.001 | 0.001        | 0.01        |
| α-Bisabolol         | 0.000 | 0.000 | 0.001        | 0.01        |
| α-Pinene            | 0.000 | 0.000 | NR           | NR          |
| α-Terpinene         | 0.000 | 0.000 | ND           | ND          |
| β-Pinene            | 0.000 | 0.001 | <LOQ         | <LOQ        |
| Camphene            | 0.001 | 0.002 | ND           | ND          |
| cis-Nerolidol       | 0.000 | 0.000 | ND           | ND          |
| δ-3-Carene          | 0.000 | 0.001 | ND           | ND          |
| γ-Terpinene         | 0.000 | 0.000 | ND           | ND          |
| Geraniol            | 0.000 | 0.000 | ND           | ND          |
| Guaial              | 0.000 | 0.001 | <LOQ         | <LOQ        |
| Isopulegol          | 0.000 | 0.000 | <LOQ         | <LOQ        |
| Ocimene             | 0.000 | 0.000 | NR           | NR          |
| p-Cymene            | 0.000 | 0.000 | ND           | ND          |
| Terpinolene         | 0.000 | 0.001 | ND           | ND          |
| trans-Nerolidol     | 0.001 | 0.002 | <LOQ         | <LOQ        |
| <b>Total</b>        |       |       | <b>0.053</b> | <b>0.53</b> |

**NT**  
Moisture  
SOP-103

**NT**  
Water Activity  
SOP-102

**Pass**  
Foreign Matter  
SOP-001

Date Tested: 01/04/2019  
Total THC = THCa \* 0.877 + Δ9-THC  
Total CBD = CBDa \* 0.877 + CBD  
LOQ = Limit of Quantitation; LOD = Limit of Detection; NT = Not Tested; ND = Not Detected.  
The reported result is based on a sample weight with the applicable moisture content for that sample.



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*Inibong Afa*  
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Executive Lab Director  
01/07/2019

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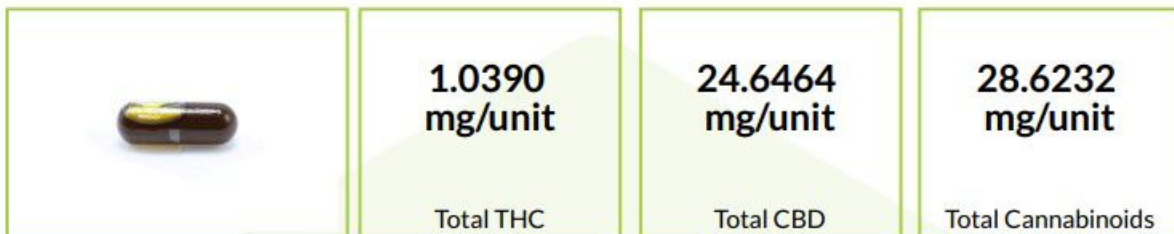


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## Cannabinoids

Complete

| Analyte                      | LOD     | LOQ     | Mass           | Mass           |
|------------------------------|---------|---------|----------------|----------------|
|                              | mg/unit | mg/unit | mg/unit        | mg/g           |
| Testing method: HPLC-SOP 101 |         |         |                |                |
| THCa                         | 0.0003  | 0.0008  | ND             | ND             |
| $\Delta^9$ -THC              | 0.0002  | 0.0008  | 1.0390         | 1.3300         |
| $\Delta^8$ -THC              | 0.0004  | 0.0016  | ND             | ND             |
| THCV                         | 0.0005  | 0.0016  | ND             | ND             |
| CBDa                         | 0.0003  | 0.0008  | 0.2578         | 0.3300         |
| CBD                          | 0.0002  | 0.0008  | 24.4203        | 31.2600        |
| CBDV                         | 0.0005  | 0.0016  | 0.4218         | 0.5400         |
| CBN                          | 0.0002  | 0.0008  | ND             | ND             |
| CBGa                         | 0.0005  | 0.0016  | ND             | ND             |
| CBG                          | 0.0005  | 0.0016  | 1.1327         | 1.4500         |
| CBC                          | 0.0002  | 0.0008  | 1.3515         | 1.7300         |
| <b>Total</b>                 |         |         | <b>28.6232</b> | <b>36.6400</b> |

1 Unit = 1 Capsule, 0.7812g; 9 servings per container; 9.4 mg/unit THC per container

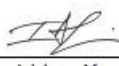
Total THC = THCa \* 0.877 +  $\Delta^9$ -THC

Total CBD = CBDa \* 0.877 + CBD

LOQ = Limit of Quantitation; LOD = Limit of Detection; NT = Not Tested; ND = Not Detected. The reported result is based on a sample weight with the applicable moisture content for that sample;



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## Pesticides

Test Method: LCMS &amp; GCMS-SOP 301


**Pass**

| Analyte             | LOD   | LOQ   | Limit  | Mass | Status | Analyte                 | LOD   | LOQ   | Limit  | Mass | Status |
|---------------------|-------|-------|--------|------|--------|-------------------------|-------|-------|--------|------|--------|
|                     | PPM   | PPM   | PPM    | PPM  |        |                         | PPM   | PPM   | PPM    | PPM  |        |
| Abamectin           | 0.005 | 0.100 | 0.300  | ND   | Pass   | Fludioxonil             | 0.001 | 0.100 | 30.000 | ND   | Pass   |
| Acephate            | 0.000 | 0.100 | 5.000  | ND   | Pass   | Hexythiazox             | 0.000 | 0.100 | 2.000  | ND   | Pass   |
| Acequinocyl         | 0.000 | 0.100 | 4.000  | ND   | Pass   | Imazalil                | 0.100 | 0.100 | 0.100  | ND   | Pass   |
| Acetamiprid         | 0.000 | 0.100 | 5.000  | ND   | Pass   | Imidacloprid            | 0.001 | 0.100 | 3.000  | ND   | Pass   |
| Aldicarb            | 0.100 | 0.100 | 0.100  | ND   | Pass   | Kresoxim Methyl         | 0.003 | 0.100 | 1.000  | ND   | Pass   |
| Azoxystrobin        | 0.000 | 0.100 | 40.000 | ND   | Pass   | Malathion               | 0.001 | 0.100 | 5.000  | ND   | Pass   |
| Bifenazate          | 0.000 | 0.100 | 5.000  | ND   | Pass   | Metalaxyl               | 0.001 | 0.100 | 15.000 | ND   | Pass   |
| Bifenthrin          | 0.000 | 0.100 | 0.500  | ND   | Pass   | Methiocarb              | 0.100 | 0.100 | 0.100  | ND   | Pass   |
| Boscalid            | 0.001 | 0.100 | 10.000 | ND   | Pass   | Methomyl                | 0.001 | 0.100 | 0.100  | ND   | Pass   |
| Captan              | 0.001 | 0.100 | 5.000  | ND   | Pass   | Methyl Parathion        | 0.100 | 0.100 | 0.100  | ND   | Pass   |
| Carbaryl            | 0.001 | 0.100 | 0.500  | ND   | Pass   | Mevinphos               | 0.100 | 0.100 | 0.100  | ND   | Pass   |
| Carbofuran          | 0.100 | 0.100 | 0.100  | ND   | Pass   | Myclobutanil            | 0.004 | 0.100 | 9.000  | ND   | Pass   |
| Chlorantraniliprole | 0.001 | 0.100 | 40.000 | ND   | Pass   | Naled                   | 0.004 | 0.100 | 0.500  | ND   | Pass   |
| Chlordane           | 0.100 | 0.100 | 0.100  | ND   | Pass   | Oxamyl                  | 0.000 | 0.100 | 0.200  | ND   | Pass   |
| Chlorfenapyr        | 0.100 | 0.100 | 0.100  | ND   | Pass   | Paclotbutrazol          | 0.100 | 0.100 | 0.100  | ND   | Pass   |
| Chlorpyrifos        | 0.100 | 0.100 | 0.100  | ND   | Pass   | Pentachloronitrobenzene | 0.000 | 0.100 | 0.200  | ND   | Pass   |
| Clofentezine        | 0.001 | 0.100 | 0.500  | ND   | Pass   | Permethrin              | 0.001 | 0.100 | 20.000 | ND   | Pass   |
| Coumaphos           | 0.100 | 0.100 | 0.100  | ND   | Pass   | Phosmet                 | 0.000 | 0.100 | 0.200  | ND   | Pass   |
| Cyfluthrin          | 0.001 | 0.100 | 1.000  | ND   | Pass   | Piperonyl Butoxide      | 0.001 | 0.100 | 8.000  | ND   | Pass   |
| Cypermethrin        | 0.000 | 0.100 | 1.000  | ND   | Pass   | Prallethrin             | 0.000 | 0.100 | 0.400  | ND   | Pass   |
| Daminozide          | 0.100 | 0.100 | 0.100  | ND   | Pass   | Propiconazole           | 0.000 | 0.100 | 20.000 | ND   | Pass   |
| DDVP                | 0.100 | 0.100 | 0.100  | ND   | Pass   | Propoxur                | 0.100 | 0.100 | 0.100  | ND   | Pass   |
| Diazinon            | 0.001 | 0.100 | 0.200  | ND   | Pass   | Pyrethrins              | 0.000 | 0.100 | 1.000  | ND   | Pass   |
| Dimethoate          | 0.100 | 0.100 | 0.100  | ND   | Pass   | Pyridaben               | 0.001 | 0.100 | 3.000  | ND   | Pass   |
| Dimethomorph        | 0.001 | 0.100 | 20.000 | ND   | Pass   | Spinetoram              | 0.001 | 0.100 | 3.000  | ND   | Pass   |
| Ethoprophos         | 0.100 | 0.100 | 0.100  | ND   | Pass   | Spinosad                | 0.000 | 0.100 | 3.000  | ND   | Pass   |
| Etofenprox          | 0.100 | 0.100 | 0.100  | ND   | Pass   | Spiromesifen            | 0.001 | 0.100 | 12.000 | ND   | Pass   |
| Etoxazole           | 0.010 | 0.100 | 1.500  | ND   | Pass   | Spirotetramat           | 0.000 | 0.100 | 13.000 | ND   | Pass   |
| Fenhexamid          | 0.001 | 0.100 | 10.000 | ND   | Pass   | Spiroxamine             | 0.100 | 0.100 | 0.100  | ND   | Pass   |
| Fenoxycarb          | 0.100 | 0.100 | 0.100  | ND   | Pass   | Tebuconazole            | 0.002 | 0.100 | 2.000  | ND   | Pass   |
| Fenpyroximate       | 0.001 | 0.100 | 2.000  | ND   | Pass   | Thiacloprid             | 0.100 | 0.100 | 0.100  | ND   | Pass   |
| Fipronil            | 0.100 | 0.100 | 0.100  | ND   | Pass   | Thiamethoxam            | 0.000 | 0.100 | 4.500  | ND   | Pass   |
| Fonicamid           | 0.001 | 0.100 | 2.000  | ND   | Pass   | Trifloxystrobin         | 0.001 | 0.100 | 30.000 | ND   | Pass   |

Date Tested: 01/04/2019

LOQ = Limit of Quantitation; LOD = Limit of Detection; NT = Not Tested; ND = Not Detected.


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## Heavy Metals

| Analyte                       | Mass   | LOQ    | LOD   | Limit    | Status |
|-------------------------------|--------|--------|-------|----------|--------|
| Testing method: ICPMS-SOP 501 |        |        |       |          |        |
|                               | PPB    | PPB    | PPB   | PPB      |        |
| Arsenic                       | <LOQ   | 10.000 | 1.000 | 1500.000 | Pass   |
| Cadmium                       | ND     | 10.000 | 1.000 | 500.000  | Pass   |
| Lead                          | 64.334 | 10.000 | 1.000 | 500.000  | Pass   |
| Mercury                       | <LOQ   | 10.000 | 1.000 | 3000.000 | Pass   |

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