

## CERTIFICATE OF ANALYSIS

Product: AdvanCBD THC-Free Water Soluble Hemp Extract Apple Cider Vinegar Tincture 250/30mL  
 Common/INCI Name: Apple Cider Vinegar (N/A), Organic (MCT) Fractionated Coconut Oil (Caprylic/Capric triglyceride Oil), Quillaja Extract (Quillaja saponaria Wood Oil), Water Soluble Hemp Extract w/added Terpenes (N/A)  
 CAS#: 8028-52-2, Custom Blend, 8001-31-8, 68990-67-0  
 Country of Origin: United States  
 Lot Number: ACV250C200129, 20 029 *Store in air tight container; in a cool dry area; away from direct sunlight.*  
 Manufacturing Date: 1/28/2020  
 Expiration Date: 1/28/2022

### Organoleptic Testing:

| Properties        | Specifications   | Results  |
|-------------------|--|----------|
| Appearance:       | Smooth amber to smooth orange liquid.                            | Conforms |
| Flavor:           | Strong apple cider vinegar flavor with slight herbal aftertaste. | Conforms |
| Odor:             | Characteristic of Apple Cider Vinegar.                           | Conforms |
| Solubility:       | Soluble.   | Conforms |
| Specific Gravity: | 0.959 - 1.069 @ 20° C (68° F)                                    | 1.009    |

### Heavy Metal Analysis: ICP-MS

| Symbol | Metal   | Concentration/Units | MDL | Use Limits/Units | Status |
|--------|---------|---------------------|-----|------------------|--------|
| As     | Arsenic | 7 µg/kg             | 4   | 200/1500 µg/kg   | Pass   |
| Cd     | Cadmium | 3 µg/kg             | 1   | 200/500 µg/kg    | Pass   |
| Hg     | Mercury | 4 µg/kg             | 2   | 100/1500 µg/kg   | Pass   |
| Pb     | Lead    | ND µg/kg            | 2   | 500/1000 µg/kg   | Pass   |

### Microbial Contaminants: PCR

| Test                   | Unit  | Result        |
|------------------------|-------|---------------|
| Total Aerobic Count    | CFU/g | None Detected |
| Total Coliforms        | CFU/g | None Detected |
| Total Yeasts and Molds | CFU/g | None Detected |
| E. coli                | CFU/g | None Detected |
| Salmonella             | CFU/g | None Detected |

### Pesticides: GC QQQ

| Pesticide     | Action Level (ppm) | Results (ppm) | Pesticide       | Action Level (ppm) | Results (ppm) |
|---------------|--------------------|---------------|-----------------|--------------------|---------------|
| Abamectin B1A | 0.100              | None Detected | Imadacloprid    | 5.000              | None Detected |
| Acephate      | 0.100              | None Detected | Kresoxim-methyl | 0.100              | None Detected |
| Acequinocyl   | 0.100              | None Detected | Malathion       | 0.500              | None Detected |



|                     |        |               |                     |       |               |
|---------------------|--------|---------------|---------------------|-------|---------------|
| Acetamiprid         | 0.100  | None Detected | Metalaxyl           | 2.000 | None Detected |
| Aldicarb            | 0.100  | None Detected | Methicarb           | 0.100 | None Detected |
| Azoxystrobin        | 0.100  | None Detected | Methomyl            | 1.000 | None Detected |
| Bifenazate          | 0.100  | None Detected | Mevinphos           | 0.100 | None Detected |
| Bifenthrin          | 3.000  | None Detected | Myclobutanil        | 0.100 | None Detected |
| Boscalid            | 0.100  | None Detected | Naled               | 0.100 | None Detected |
| Carbaryl            | 0.500  | None Detected | Oxamyl              | 0.500 | None Detected |
| Carbofuran          | 0.100  | None Detected | Paclobutrazol       | 0.100 | None Detected |
| Chlorantraniliprole | 10.000 | None Detected | Permethrins         | 0.500 | None Detected |
| Chlorpyrifos        | 0.100  | None Detected | Phosmet             | 0.100 | None Detected |
| Clofentezine        | 0.100  | None Detected | Piperonyl Butoxide  | 3.000 | None Detected |
| Daminozide          | 0.100  | None Detected | Prallethrin         | 0.100 | None Detected |
| Diazanone           | 0.100  | None Detected | Propiconazole       | 0.100 | None Detected |
| Dichlorvos          | 0.100  | None Detected | Propoxur Pyrethrins | 0.500 | None Detected |
| Dimethoate          | 0.100  | None Detected | Pyridaben           | 0.100 | None Detected |
| Dimethomorph        | 2.000  | None Detected | Spinetoram          | 0.100 | None Detected |
| Ethoprophos         | 0.100  | None Detected | Spinosad            | 0.100 | None Detected |
| Etofenprox          | 0.100  | None Detected | Spiromesifen        | 0.100 | None Detected |
| Etoxazole           | 0.100  | None Detected | Spirotetramat       | 0.100 | None Detected |
| Fenhexamid          | 0.100  | None Detected | Spiroxamine         | 0.100 | None Detected |
| Fenoxycarb          | 0.100  | None Detected | Tebuconazole        | 0.100 | None Detected |
| Fenpyroximate       | 0.100  | None Detected | Thiacloprid         | 0.100 | None Detected |
| Fipronil            | 0.100  | None Detected | Thiamethoxam        | 0.100 | None Detected |
| Flonicamid          | 0.100  | None Detected | Trifloxystrobin     | 5.000 | None Detected |
| Fludioxonil         | 0.100  | None Detected |                     |       |               |
| Hexythiazox         | 0.100  | None Detected |                     |       |               |
| Imazalil            | 0.100  | None Detected |                     |       |               |

**Residual Solvents: GC**

| <b>Solvent</b>                | <b>Reportable Range (ppm)</b> | <b>Result (ppm)</b> | <b>Solvent</b>            | <b>Reportable Range (ppm)</b> | <b>Result (ppm)</b> |
|-------------------------------|-------------------------------|---------------------|---------------------------|-------------------------------|---------------------|
| Propane                       | 100-2000                      | 0                   | Hexane                    | 6-120                         | 0                   |
| Butanes (Isobutane, n-Butane) | 100-2000                      | 0                   | Benzene                   | 0.2-4.0                       | 0.0                 |
| Pentane                       | 100-2000                      | 0                   | Heptanes                  | 100-2000                      | 0                   |
| Ethanol                       | 100-2000                      | 0                   | Toluene                   | 18-360                        | 0                   |
| Acetone                       | 100-2000                      | 0                   | Xylenes (m, p, o-Xylenes) | 46-860                        | 0                   |
| Isopropyl Alcohol             | 100-2000                      | 0                   |                           |                               |                     |

**Mycotoxin Analysis: LC-MS**

| Analyte      | Action Level (ppb) | Results (ppb) |
|--------------|--------------------|---------------|
| Aflatoxin B1 | 20.000             | None Detected |
| Aflatoxin B2 | 20.000             | None Detected |
| Aflatoxin G1 | 20.000             | None Detected |
| Aflatoxin G2 | 20.000             | None Detected |
| Ochratoxin A | 20.000             | None Detected |

**Cannabinoid Analysis Profile**

| Cannabinoid | mg/g      | %     | Cannabinoid   | mg/g | %     |
|-------------|-----------|-------|---------------|------|-------|
| THC         | ND        | 0.00% | CBGa          | ND   | 0.00% |
| THCa        | ND        | 0.00% | THCV          | ND   | 0.00% |
| CBD         | 8.26 mg/g | 0.83% | THCVa         | ND   | 0.00% |
| CBDa        | ND        | 0.00% | Delta 8 – THC | ND   | 0.00% |
| CBN         | ND        | 0.00% | CBC           | ND   | 0.00% |
| CBDV        | ND        | 0.00% | CBCa          | ND   | 0.00% |
| CBDVa       | ND        | 0.00% | CBL           | ND   | 0.00% |
| CBG         | ND        | 0.00% |               |      |       |

**CBD Analysis Specs: 250mg +/- 12.5mg per bottle**

**Summary**

|                            |   |
|----------------------------|---|
| Organoleptic Analysis:     | <b>Pass</b>   |
| Heavy Metal Analysis:      | <b>Pass</b>   |
| Microbial Analysis:        | <b>None Detected</b>                                    |
| Pesticide Analysis:        | <b>None Detected</b>                                    |
| Residual Solvent Analysis: | <b>None Detected</b>                                    |
| Mycotoxin Analysis:        | <b>None Detected</b>                                    |
| CBD Analysis:              | <b>Within Range</b>                                     |
| Product Analysis:          | <b>Unadulterated, no traces of synthetic additives.</b> |

**DISCLAIMER:**

The information contained in this Certificate of Analysis is obtained from current and reliable sources. Nature's Fusions provides the information contained herein in good faith but makes no representation as to its comprehensiveness or accuracy. Individuals receiving this information must exercise their independent judgment in determining its appropriateness for a particular purpose. As the ordinary or otherwise use(s) of this product is outside the control of Nature's Fusions, no representation or warranty, expressed or implied, is made as to the effect(s) of such use(s), (including damage or injury), or the results obtained. Nature's Fusions expressly disclaims responsibility as to the ordinary or otherwise use(s). Furthermore, nothing contained herein should be considered as a recommendation by Nature's Fusions as to the fitness for any use. The liability of Nature's Fusions is limited to the value of the goods and does not include any consequential loss. Nature's Fusions shall not be liable for any errors or delays in the content, or for any actions taken in reliance thereon. Nature's Fusions shall not be responsible for any damages resulting from use of or reliance upon this information. The user of the product is solely responsible for compliance with all laws and regulations applying to the use of the products, including intellectual property rights of third parties.

*Kayla Mann 4/13/2020*  
 Kayla Mann Date  
 Documentation Specialist



# CERTIFICATE OF ANALYSIS

Product: AdvanCBD THC-Free Water Soluble Hemp Extract Apple Cider Vinegar Tincture 250/30mL

Common/INCI Name: Water Soluble Hemp Extract w/added Terpenes (N/A), Raw Organic Apple Cider Vinegar (Carboxylic acid), Organic (MCT) Fractionated Coconut Oil (Caprylic/Capric triglyceride Oil), Quillaja Extract (Quillaja saponaria Wood Oil)

CAS#: Custom Blend, 8028-52-2, 8001-31-8, 8047-15-2,

Country of Origin: United States

Lot Number: ACV250C190717, 19198

Manufacturing Date: 7/17/2019

Expiration Date: 7/17/2021

*Store in air tight container; in a cool dry area; away from direct sunlight.*

## Organoleptic Testing:

| Properties        | Specifications   | Results  |
|-------------------|--|----------|
| Appearance:       | Smooth amber to smooth orange liquid.                            | Conforms |
| Flavor:           | Strong apple cider vinegar flavor with slight herbal aftertaste. | Conforms |
| Odor:             | Characteristic of Apple Cider Vinegar.                           | Conforms |
| Solubility:       | Soluble.   | Conforms |
| Specific Gravity: | 0.959 - 1.069 @ 20° C (68° F)                                    | 1.009    |

## Heavy Metal Analysis: ICP-MS

| Symbol | Metal   | Concentration/Units | MDL | Use Limits/Units | Status |
|--------|---------|---------------------|-----|------------------|--------|
| As     | Arsenic | 7 µg/kg             | 4   | 200/1500 µg/kg   | Pass   |
| Cd     | Cadmium | 3 µg/kg             | 1   | 200/500 µg/kg    | Pass   |
| Hg     | Mercury | 4 µg/kg             | 2   | 100/1500 µg/kg   | Pass   |
| Pb     | Lead    | ND µg/kg            | 2   | 500/1000 µg/kg   | Pass   |

## Microbial Contaminants: PCR

| Test                   | Unit  | Result        |
|------------------------|-------|---------------|
| Total Aerobic Count    | CFU/g | None Detected |
| Total Coliforms        | CFU/g | None Detected |
| Total Yeasts and Molds | CFU/g | None Detected |
| E. coli                | CFU/g | None Detected |
| Salmonella             | CFU/g | None Detected |

## Pesticides: GC QQQ

| Pesticide     | Action Level | Results (ppm) | Pesticide       | Action Level | Results (ppm) |
|---------------|--------------|---------------|-----------------|--------------|---------------|
| Abamectin B1A | 0.100        | None Detected | Imadacloprid    | 5.000        | None Detected |
| Acephate      | 0.100        | None Detected | Kresoxim-methyl | 0.100        | None Detected |
| Acequinocyl   | 0.100        | None Detected | Malathion       | 0.500        | None Detected |
| Acetamiprid   | 0.100        | None Detected | Metalaxyl       | 2.000        | None Detected |



|                     |        |               |                     |       |               |
|---------------------|--------|---------------|---------------------|-------|---------------|
| Aldicarb            | 0.100  | None Detected | Methicarb           | 0.100 | None Detected |
| Azoxystrobin        | 0.100  | None Detected | Methomyl            | 1.000 | None Detected |
| Bifenazate          | 0.100  | None Detected | Mevinphos           | 0.100 | None Detected |
| Bifenthrin          | 3.000  | None Detected | Myclobutanil        | 0.100 | None Detected |
| Boscalid            | 0.100  | None Detected | Naled               | 0.100 | None Detected |
| Carbaryl            | 0.500  | None Detected | Oxamyl              | 0.500 | None Detected |
| Carbofuran          | 0.100  | None Detected | Paclobutrazol       | 0.100 | None Detected |
| Chlorantraniliprole | 10.000 | None Detected | Permethrins         | 0.500 | None Detected |
| Chlorpyrifos        | 0.100  | None Detected | Phosmet             | 0.100 | None Detected |
| Clofentezine        | 0.100  | None Detected | Piperonyl Butoxide  | 3.000 | None Detected |
| Daminozide          | 0.100  | None Detected | Prallethrin         | 0.100 | None Detected |
| Diazanone           | 0.100  | None Detected | Propiconazole       | 0.100 | None Detected |
| Dichlorvos          | 0.100  | None Detected | Propoxur Pyrethrins | 0.500 | None Detected |
| Dimethoate          | 0.100  | None Detected | Pyridaben           | 0.100 | None Detected |
| Dimethomorph        | 2.000  | None Detected | Spinetoram          | 0.100 | None Detected |
| Ethoprophos         | 0.100  | None Detected | Spinosad            | 0.100 | None Detected |
| Etofenprox          | 0.100  | None Detected | Spiromesifen        | 0.100 | None Detected |
| Etoxazole           | 0.100  | None Detected | Spirotetramat       | 0.100 | None Detected |
| Fenhexamid          | 0.100  | None Detected | Spiroxamine         | 0.100 | None Detected |
| Fenoxycarb          | 0.100  | None Detected | Tebuconazole        | 0.100 | None Detected |
| Fenpyroximate       | 0.100  | None Detected | Thiacloprid         | 0.100 | None Detected |
| Fipronil            | 0.100  | None Detected | Thiamethoxam        | 0.100 | None Detected |
| Fonicamid           | 0.100  | None Detected | Trifloxystrobin     | 5.000 | None Detected |
| Fludioxonil         | 0.100  | None Detected |                     |       |               |
| Hexythiazox         | 0.100  | None Detected |                     |       |               |
| Imazalil            | 0.100  | None Detected |                     |       |               |

#### Residual Solvents: GC

| Solvent                       | Reportable Range (ppm) | Result (ppm) | Solvent                    | Reportable Range (ppm) | Result (ppm) |
|-------------------------------|------------------------|--------------|----------------------------|------------------------|--------------|
| Propane                       | 100-2000               | 0            | Hexane                     | 6-120                  | 0            |
| Butanes (Isobutane, n-Butane) | 100-2000               | 0            | Benzene                    | 0.2-4.0                | 0.0          |
| Pentane                       | 100-2000               | 0            | Heptanes                   | 100-2000               | 0            |
| Ethanol                       | 100-2000               | 0            | Toluene                    | 18-360                 | 0            |
| Acetone                       | 100-2000               | 0            | Xylenes (m, p, o- Xylenes) | 46-860                 | 0            |
| Isopropyl Alcohol             | 100-2000               | 0            |                            |                        |              |

#### Mycotoxin Analysis: LC-MS

| Analyte      | Action Level (ppb) | Results (ppb) |
|--------------|--------------------|---------------|
| Aflatoxin B1 | 20.000             | None Detected |
| Aflatoxin B2 | 20.000             | None Detected |
| Aflatoxin G1 | 20.000             | None Detected |
| Aflatoxin G2 | 20.000             | None Detected |

Ochratoxin A

20.000

None Detected

**Cannabinoid Analysis Profile**

| <b>Cannabinoid</b> | <b>mg/g</b> | <b>%</b> | <b>Cannabinoid</b> | <b>mg/g</b> | <b>%</b> |
|--------------------|-------------|----------|--------------------|-------------|----------|
| THC                | ND          | 0.00%    | CBGa               | ND          | 0.00%    |
| THCa               | ND          | 0.00%    | THCV               | ND          | 0.00%    |
| CBD                | 8.26 mg/g   | 0.83%    | THCVa              | ND          | 0.00%    |
| CBDa               | ND          | 0.00%    | Delta 8 – THC      | ND          | 0.00%    |
| CBN                | ND          | 0.00%    | CBC                | ND          | 0.00%    |
| CBDV               | ND          | 0.00%    | CBCa               | ND          | 0.00%    |
| CBDVa              | ND          | 0.00%    | CBL                | ND          | 0.00%    |
| CBG                | ND          | 0.00%    |                    |             |          |

**Summary**

- Organoleptic Analysis: **Pass**
- Heavy Metal Analysis: **Pass**
- Microbial Analysis: **None Detected**
- Pesticide Analysis: **None Detected**
- Residual Solvent Analysis: **None Detected**
- Mycotoxin Analysis: **None Detected**
- Terpene Analysis: **Unadulterated, no traces of synthetic additives.**

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Kayla Mann 10/29/2019  
 Kayla Mann Date  
 Documentation Specialist



# CERTIFICATE OF ANALYSIS

Product: AdvanCBD THC-Free Water Soluble Hemp Extract Apple Cider Vinegar Tincture 250/30mL

Common/INCI Name: Water Soluble Hemp Extract w/added Terpenes (N/A), Raw Organic Apple Cider Vinegar (Carboxylic acid), Organic (MCT) Fractionated Coconut Oil (Caprylic/Capric triglyceride Oil), Quillaja Extract (Quillaja saponaria Wood Oil)

CAS#: Custom Blend, 8028-52-2, 8001-31-8, 8047-15-2,

Country of Origin: United States

Lot Number: ACV250190710, 19192

Manufacturing Date: 7/10/2019

Expiration Date: 7/10/2021

*Store in air tight container; in a cool dry area; away from direct sunlight.*

## Organoleptic Testing:

| Properties        | Specifications   | Results  |
|-------------------|--|----------|
| Appearance:       | Smooth amber to smooth orange liquid.                            | Conforms |
| Flavor:           | Strong apple cider vinegar flavor with slight herbal aftertaste. | Conforms |
| Odor:             | Characteristic of Apple Cider Vinegar.                           | Conforms |
| Solubility:       | Soluble.   | Conforms |
| Specific Gravity: | 0.959 - 1.069 @ 20° C (68° F)                                    | 1.009    |

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| Symbol | Metal   | Concentration/Units | MDL | Use Limits/Units | Status |
|--------|---------|---------------------|-----|------------------|--------|
| As     | Arsenic | 7 µg/kg             | 4   | 200/1500 µg/kg   | Pass   |
| Cd     | Cadmium | 3 µg/kg             | 1   | 200/500 µg/kg    | Pass   |
| Hg     | Mercury | 4 µg/kg             | 2   | 100/1500 µg/kg   | Pass   |
| Pb     | Lead    | ND µg/kg            | 2   | 500/1000 µg/kg   | Pass   |

## Microbial Contaminants: PCR

| Test                   | Unit  | Result        |
|------------------------|-------|---------------|
| Total Aerobic Count    | CFU/g | None Detected |
| Total Coliforms        | CFU/g | None Detected |
| Total Yeasts and Molds | CFU/g | None Detected |
| E. coli                | CFU/g | None Detected |
| Salmonella             | CFU/g | None Detected |



## Pesticides: GC QQQ

| Pesticide     | Action Level (ppm) | Results (ppm) | Pesticide       | Action Level (ppm) | Results (ppm) |
|---------------|--------------------|---------------|-----------------|--------------------|---------------|
| Abamectin B1A | 0.100              | None Detected | Imadacloprid    | 5.000              | None Detected |
| Acephate      | 0.100              | None Detected | Kresoxim-methyl | 0.100              | None Detected |
| Acequinocyl   | 0.100              | None Detected | Malathion       | 0.500              | None Detected |
| Acetamiprid   | 0.100              | None Detected | Metalaxyl       | 2.000              | None Detected |

|                     |        |               |                     |       |               |
|---------------------|--------|---------------|---------------------|-------|---------------|
| Aldicarb            | 0.100  | None Detected | Methicarb           | 0.100 | None Detected |
| Azoxystrobin        | 0.100  | None Detected | Methomyl            | 1.000 | None Detected |
| Bifenazate          | 0.100  | None Detected | Mevinphos           | 0.100 | None Detected |
| Bifenthrin          | 3.000  | None Detected | Myclobutanil        | 0.100 | None Detected |
| Boscalid            | 0.100  | None Detected | Naled               | 0.100 | None Detected |
| Carbaryl            | 0.500  | None Detected | Oxamyl              | 0.500 | None Detected |
| Carbofuran          | 0.100  | None Detected | Paclobutrazol       | 0.100 | None Detected |
| Chlorantraniliprole | 10.000 | None Detected | Permethrins         | 0.500 | None Detected |
| Chlorpyrifos        | 0.100  | None Detected | Phosmet             | 0.100 | None Detected |
| Clofentezine        | 0.100  | None Detected | Piperonyl Butoxide  | 3.000 | None Detected |
| Daminozide          | 0.100  | None Detected | Prallethrin         | 0.100 | None Detected |
| Diazanone           | 0.100  | None Detected | Propiconazole       | 0.100 | None Detected |
| Dichlorvos          | 0.100  | None Detected | Propoxur Pyrethrins | 0.500 | None Detected |
| Dimethoate          | 0.100  | None Detected | Pyridaben           | 0.100 | None Detected |
| Dimethomorph        | 2.000  | None Detected | Spinetoram          | 0.100 | None Detected |
| Ethoprophos         | 0.100  | None Detected | Spinosad            | 0.100 | None Detected |
| Etofenprox          | 0.100  | None Detected | Spiromesifen        | 0.100 | None Detected |
| Etoxazole           | 0.100  | None Detected | Spirotetramat       | 0.100 | None Detected |
| Fenhexamid          | 0.100  | None Detected | Spiroxamine         | 0.100 | None Detected |
| Fenoxycarb          | 0.100  | None Detected | Tebuconazole        | 0.100 | None Detected |
| Fenpyroximate       | 0.100  | None Detected | Thiacloprid         | 0.100 | None Detected |
| Fipronil            | 0.100  | None Detected | Thiamethoxam        | 0.100 | None Detected |
| Fonicamid           | 0.100  | None Detected | Trifloxystrobin     | 5.000 | None Detected |
| Fludioxonil         | 0.100  | None Detected |                     |       |               |
| Hexythiazox         | 0.100  | None Detected |                     |       |               |
| Imazalil            | 0.100  | None Detected |                     |       |               |

#### Residual Solvents: GC

| Solvent                       | Reportable Range (ppm) | Result (ppm) | Solvent                   | Reportable Range (ppm) | Result (ppm) |
|-------------------------------|------------------------|--------------|---------------------------|------------------------|--------------|
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| Butanes (Isobutane, n-Butane) | 100-2000               | 0            | Benzene                   | 0.2-4.0                | 0.0          |
| Pentane                       | 100-2000               | 0            | Heptanes                  | 100-2000               | 0            |
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| Acetone                       | 100-2000               | 0            | Xylenes (m, p, o-Xylenes) | 46-860                 | 0            |
| Isopropyl Alcohol             | 100-2000               | 0            |                           |                        |              |

#### Mycotoxin Analysis: LC-MS

| Analyte      | Action Level (ppb) | Results (ppb) |
|--------------|--------------------|---------------|
| Aflatoxin B1 | 20.000             | None Detected |
| Aflatoxin B2 | 20.000             | None Detected |
| Aflatoxin G1 | 20.000             | None Detected |
| Aflatoxin G2 | 20.000             | None Detected |



Ochratoxin A

20.000

None Detected

**Cannabinoid Analysis Profile**

| <b>Cannabinoid</b> | <b>mg/g</b> | <b>%</b> | <b>Cannabinoid</b> | <b>mg/g</b> | <b>%</b> |
|--------------------|-------------|----------|--------------------|-------------|----------|
| THC                | ND          | 0.00%    | CBGa               | ND          | 0.00%    |
| THCa               | ND          | 0.00%    | THCV               | ND          | 0.00%    |
| CBD                | 8.26 mg/g   | 0.83%    | THCVa              | ND          | 0.00%    |
| CBDa               | ND          | 0.00%    | Delta 8 – THC      | ND          | 0.00%    |
| CBN                | ND          | 0.00%    | CBC                | ND          | 0.00%    |
| CBDV               | ND          | 0.00%    | CBCa               | ND          | 0.00%    |
| CBDVa              | ND          | 0.00%    | CBL                | ND          | 0.00%    |
| CBG                | ND          | 0.00%    |                    |             |          |

**Summary**

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- Heavy Metal Analysis: **Pass**
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- Mycotoxin Analysis: **None Detected**
- Terpene Analysis: **Unadulterated, no traces of synthetic additives.**

**DISCLAIMER:**

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Kayla Mann 10/29/2019  
 Kayla Mann Date  
 Documentation Specialist



# CERTIFICATE OF ANALYSIS

Product: AdvanCBD THC-Free Water Soluble Hemp Extract Apple Cider Vinegar Tincture 250/30mL

Common/INCI Name: Water Soluble Hemp Extract w/added Terpenes (N/A), Raw Organic Apple Cider Vinegar (Carboxylic acid), Organic (MCT) Fractionated Coconut Oil (Caprylic/Capric triglyceride Oil), Quillaja Extract (Quillaja saponaria Wood Oil)

CAS#: Custom Blend, 8028-52-2, 8001-31-8, 8047-15-2,

Country of Origin: United States

Lot Number: ACV250C190605, 170 19

Manufacturing Date: 6/19/2019

Expiration Date: 6/19/2021

*Store in air tight container; in a cool dry area; away from direct sunlight.*

## Organoleptic Testing:

| Properties        | Specifications   | Results  |
|-------------------|--|----------|
| Appearance:       | Smooth amber to smooth orange liquid.                            | Conforms |
| Flavor:           | Strong apple cider vinegar flavor with slight herbal aftertaste. | Conforms |
| Odor:             | Characteristic of Apple Cider Vinegar.                           | Conforms |
| Solubility:       | Soluble.   | Conforms |
| Specific Gravity: | 0.959 - 1.069 @ 20° C (68° F)                                    | 1.009    |

## Heavy Metal Analysis: ICP-MS

| Symbol | Metal   | Concentration/Units | MDL | Use Limits/Units | Status |
|--------|---------|---------------------|-----|------------------|--------|
| As     | Arsenic | 7 µg/kg             | 4   | 200/1500 µg/kg   | Pass   |
| Cd     | Cadmium | 3 µg/kg             | 1   | 200/500 µg/kg    | Pass   |
| Hg     | Mercury | 4 µg/kg             | 2   | 100/1500 µg/kg   | Pass   |
| Pb     | Lead    | ND µg/kg            | 2   | 500/1000 µg/kg   | Pass   |

## Microbial Contaminants: PCR

| Test                   | Unit  | Result        |
|------------------------|-------|---------------|
| Total Aerobic Count    | CFU/g | None Detected |
| Total Coliforms        | CFU/g | None Detected |
| Total Yeasts and Molds | CFU/g | None Detected |
| E. coli                | CFU/g | None Detected |
| Salmonella             | CFU/g | None Detected |



## Pesticides: GC QQQ

| Pesticide     | Action Level (ppm) | Results (ppm) | Pesticide       | Action Level (ppm) | Results (ppm) |
|---------------|--------------------|---------------|-----------------|--------------------|---------------|
| Abamectin B1A | 0.100              | None Detected | Imadacloprid    | 5.000              | None Detected |
| Acephate      | 0.100              | None Detected | Kresoxim-methyl | 0.100              | None Detected |
| Acequinocyl   | 0.100              | None Detected | Malathion       | 0.500              | None Detected |
| Acetamiprid   | 0.100              | None Detected | Metalaxyl       | 2.000              | None Detected |

|                     |        |               |                     |       |               |
|---------------------|--------|---------------|---------------------|-------|---------------|
| Aldicarb            | 0.100  | None Detected | Methicarb           | 0.100 | None Detected |
| Azoxystrobin        | 0.100  | None Detected | Methomyl            | 1.000 | None Detected |
| Bifenazate          | 0.100  | None Detected | Mevinphos           | 0.100 | None Detected |
| Bifenthrin          | 3.000  | None Detected | Myclobutanil        | 0.100 | None Detected |
| Boscalid            | 0.100  | None Detected | Naled               | 0.100 | None Detected |
| Carbaryl            | 0.500  | None Detected | Oxamyl              | 0.500 | None Detected |
| Carbofuran          | 0.100  | None Detected | Paclobutrazol       | 0.100 | None Detected |
| Chlorantraniliprole | 10.000 | None Detected | Permethrins         | 0.500 | None Detected |
| Chlorpyrifos        | 0.100  | None Detected | Phosmet             | 0.100 | None Detected |
| Clofentezine        | 0.100  | None Detected | Piperonyl Butoxide  | 3.000 | None Detected |
| Daminozide          | 0.100  | None Detected | Prallethrin         | 0.100 | None Detected |
| Diazanone           | 0.100  | None Detected | Propiconazole       | 0.100 | None Detected |
| Dichlorvos          | 0.100  | None Detected | Propoxur Pyrethrins | 0.500 | None Detected |
| Dimethoate          | 0.100  | None Detected | Pyridaben           | 0.100 | None Detected |
| Dimethomorph        | 2.000  | None Detected | Spinetoram          | 0.100 | None Detected |
| Ethoprophos         | 0.100  | None Detected | Spinosad            | 0.100 | None Detected |
| Etofenprox          | 0.100  | None Detected | Spiromesifen        | 0.100 | None Detected |
| Etoxazole           | 0.100  | None Detected | Spirotetramat       | 0.100 | None Detected |
| Fenhexamid          | 0.100  | None Detected | Spiroxamine         | 0.100 | None Detected |
| Fenoxycarb          | 0.100  | None Detected | Tebuconazole        | 0.100 | None Detected |
| Fenpyroximate       | 0.100  | None Detected | Thiacloprid         | 0.100 | None Detected |
| Fipronil            | 0.100  | None Detected | Thiamethoxam        | 0.100 | None Detected |
| Fonicamid           | 0.100  | None Detected | Trifloxystrobin     | 5.000 | None Detected |
| Fludioxonil         | 0.100  | None Detected |                     |       |               |
| Hexythiazox         | 0.100  | None Detected |                     |       |               |
| Imazalil            | 0.100  | None Detected |                     |       |               |

#### Residual Solvents: GC

| Solvent                       | Reportable Range (ppm) | Result (ppm) | Solvent                       | Reportable Range (ppm) | Result (ppm) |
|-------------------------------|------------------------|--------------|-------------------------------|------------------------|--------------|
| Propane                       | 100-2000               | 0            | Hexane                        | 6-120                  | 0            |
| Butanes (Isobutane, n-Butane) | 100-2000               | 0            | Benzene                       | 0.2-4.0                | 0.0          |
| Pentane                       | 100-2000               | 0            | Heptanes                      | 100-2000               | 0            |
| Ethanol                       | 100-2000               | 0            | Toluene                       | 18-360                 | 0            |
| Acetone                       | 100-2000               | 0            | Xylenes (m, p, o-<br>Xylenes) | 46-860                 | 0            |
| Isopropyl Alcohol             | 100-2000               | 0            |                               |                        |              |

#### Mycotoxin Analysis: LC-MS

| Analyte      | Action Level (ppb) | Results (ppb) |
|--------------|--------------------|---------------|
| Aflatoxin B1 | 20.000             | None Detected |
| Aflatoxin B2 | 20.000             | None Detected |
| Aflatoxin G1 | 20.000             | None Detected |
| Aflatoxin G2 | 20.000             | None Detected |



## CERTIFICATE OF ANALYSIS

Product: AdvanCBD THC-Free Water Soluble Hemp Extract Apple Cider Vinegar Tincture 500/30ml  
 Common/INCI Name: Apple Cider Vinegar (N/A), Organic (MCT) Fractionated Coconut Oil (Caprylic/Capric triglyceride Oil), Quillaja Extract (Quillaja saponaria Wood Oil), Water Soluble Hemp Extract w/added Terpenes (N/A)  
 CAS#: 8028-52-2, Custom Blend, 8001-31-8, 68990-67-0  
 Country of Origin: United States  
 Lot Number: ACV500C191203, 19 337  
 Manufacturing Date: 12/3/2019  
 Expiration Date: 12/3/2021

*Store in air tight container; in a cool dry area; away from direct sunlight.*

### Organoleptic Testing:

| Properties        | Specifications                         | Results  |
|-------------------|--|----------|
| Appearance:       | Smooth amber to smooth orange liquid.  | Conforms |
| Flavor:           | Characteristic of Apple Cider Vinegar. | Conforms |
| Odor:             | Characteristic of Apple Cider Vinegar. | Conforms |
| Solubility:       | Soluble.                               | Conforms |
| Specific Gravity: | 0.959 - 1.069 @ 20° C (68° F)          | 1.007    |

### Heavy Metal Analysis: ICP-MS

| Symbol | Metal   | Concentration/Units | MDL | Use Limits/Units | Status |
|--------|---------|---------------------|-----|------------------|--------|
| As     | Arsenic | 7 µg/kg             | 4   | 200/1500 µg/kg   | Pass   |
| Cd     | Cadmium | 3 µg/kg             | 1   | 200/500 µg/kg    | Pass   |
| Hg     | Mercury | 4 µg/kg             | 2   | 100/1500 µg/kg   | Pass   |
| Pb     | Lead    | ND µg/kg            | 2   | 500/1000 µg/kg   | Pass   |

### Microbial Contaminants: PCR

| Test                   | Unit  | Result        |
|------------------------|-------|---------------|
| Total Aerobic Count    | CFU/g | None Detected |
| Total Coliforms        | CFU/g | None Detected |
| Total Yeasts and Molds | CFU/g | None Detected |
| E. coli                | CFU/g | None Detected |
| Salmonella             | CFU/g | None Detected |

### Pesticides: GC QQQ

| Pesticide     | Action Level (ppm) | Results (ppm) | Pesticide       | Action Level (ppm) | Results (ppm) |
|---------------|--------------------|---------------|-----------------|--------------------|---------------|
| Abamectin B1A | 0.100              | None Detected | Imadacloprid    | 5.000              | None Detected |
| Acephate      | 0.100              | None Detected | Kresoxim-methyl | 0.100              | None Detected |
| Acequinocyl   | 0.100              | None Detected | Malathion       | 0.500              | None Detected |



|                     |        |               |                     |       |               |
|---------------------|--------|---------------|---------------------|-------|---------------|
| Acetamiprid         | 0.100  | None Detected | Metalaxyl           | 2.000 | None Detected |
| Aldicarb            | 0.100  | None Detected | Methicarb           | 0.100 | None Detected |
| Azoxystrobin        | 0.100  | None Detected | Methomyl            | 1.000 | None Detected |
| Bifenazate          | 0.100  | None Detected | Mevinphos           | 0.100 | None Detected |
| Bifenthrin          | 3.000  | None Detected | Myclobutanil        | 0.100 | None Detected |
| Boscalid            | 0.100  | None Detected | Naled               | 0.100 | None Detected |
| Carbaryl            | 0.500  | None Detected | Oxamyl              | 0.500 | None Detected |
| Carbofuran          | 0.100  | None Detected | Pacllobutrazol      | 0.100 | None Detected |
| Chlorantraniliprole | 10.000 | None Detected | Permethrins         | 0.500 | None Detected |
| Chlorpyrifos        | 0.100  | None Detected | Phosmet             | 0.100 | None Detected |
| Clofentezine        | 0.100  | None Detected | Piperonyl Butoxide  | 3.000 | None Detected |
| Daminozide          | 0.100  | None Detected | Prallethrin         | 0.100 | None Detected |
| Diazanone           | 0.100  | None Detected | Propiconazole       | 0.100 | None Detected |
| Dichlorvos          | 0.100  | None Detected | Propoxur Pyrethrins | 0.500 | None Detected |
| Dimethoate          | 0.100  | None Detected | Pyridaben           | 0.100 | None Detected |
| Dimethomorph        | 2.000  | None Detected | Spinetoram          | 0.100 | None Detected |
| Ethoprophos         | 0.100  | None Detected | Spinosad            | 0.100 | None Detected |
| Etofenprox          | 0.100  | None Detected | Spiromesifen        | 0.100 | None Detected |
| Etoxazole           | 0.100  | None Detected | Spirotetramat       | 0.100 | None Detected |
| Fenhexamid          | 0.100  | None Detected | Spiroxamine         | 0.100 | None Detected |
| Fenoxycarb          | 0.100  | None Detected | Tebuconazole        | 0.100 | None Detected |
| Fenpyroximate       | 0.100  | None Detected | Thiacloprid         | 0.100 | None Detected |
| Fipronil            | 0.100  | None Detected | Thiamethoxam        | 0.100 | None Detected |
| Flonicamid          | 0.100  | None Detected | Trifloxystrobin     | 5.000 | None Detected |
| Fludioxonil         | 0.100  | None Detected |                     |       |               |
| Hexythiazox         | 0.100  | None Detected |                     |       |               |
| Imazalil            | 0.100  | None Detected |                     |       |               |

**Residual Solvents: GC**

| <b>Solvent</b>                | <b>Reportable Range (ppm)</b> | <b>Result (ppm)</b> | <b>Solvent</b>            | <b>Reportable Range (ppm)</b> | <b>Result (ppm)</b> |
|-------------------------------|-------------------------------|---------------------|---------------------------|-------------------------------|---------------------|
| Propane                       | 100-2000                      | 0                   | Hexane                    | 6-120                         | 0                   |
| Butanes (Isobutane, n-Butane) | 100-2000                      | 0                   | Benzene                   | 0.2-4.0                       | 0.0                 |
| Pentane                       | 100-2000                      | 0                   | Heptanes                  | 100-2000                      | 0                   |
| Ethanol                       | 100-2000                      | 0                   | Toluene                   | 18-360                        | 0                   |
| Acetone                       | 100-2000                      | 0                   | Xylenes (m, p, o-Xylenes) | 46-860                        | 0                   |
| Isopropyl Alcohol             | 100-2000                      | 0                   |                           |                               |                     |

**Mycotoxin Analysis: LC-MS**

| Analyte      | Action Level (ppb) | Results (ppb) |
|--------------|--------------------|---------------|
| Aflatoxin B1 | 20.000             | None Detected |
| Aflatoxin B2 | 20.000             | None Detected |
| Aflatoxin G1 | 20.000             | None Detected |
| Aflatoxin G2 | 20.000             | None Detected |
| Ochratoxin A | 20.000             | None Detected |

**Cannabinoid Analysis Profile**

| Cannabinoid | mg/g       | %     | Cannabinoid   | mg/g | %     |
|-------------|------------|-------|---------------|------|-------|
| THC         | ND         | 0.00% | CBGa          | ND   | 0.00% |
| THCa        | ND         | 0.00% | THCV          | ND   | 0.00% |
| CBD         | 16.55 mg/g | 1.65% | THCVa         | ND   | 0.00% |
| CBDa        | ND         | 0.00% | Delta 8 – THC | ND   | 0.00% |
| CBN         | ND         | 0.00% | CBC           | ND   | 0.00% |
| CBDV        | ND         | 0.00% | CBCa          | ND   | 0.00% |
| CBDVa       | ND         | 0.00% | CBL           | ND   | 0.00% |
| CBG         | ND         | 0.00% |               |      |       |

**CBD Analysis Specs: 500mg +/- 3mg Per oz**

**Summary**

|                            |   |
|----------------------------|---|
| Organoleptic Analysis:     | <b>Pass</b>   |
| Heavy Metal Analysis:      | <b>Pass</b>   |
| Microbial Analysis:        | <b>None Detected</b>                                    |
| Pesticide Analysis:        | <b>None Detected</b>                                    |
| Residual Solvent Analysis: | <b>None Detected</b>                                    |
| Mycotoxin Analysis:        | <b>None Detected</b>                                    |
| CBD Analysis:              | <b>Within Range</b>                                     |
| Product Analysis:          | <b>Unadulterated, no traces of synthetic additives.</b> |

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*Kayla Mann 4/13/2020*  
 Kayla Mann Date  
 Documentation Specialist

# CERTIFICATE OF ANALYSIS

Product: AdvanCBD THC-Free Water Soluble Hemp Extract Apple Cider Vinegar Tincture 500/30mL

Common/INCI Name: Water Soluble Hemp Extract w/added Terpenes (N/A), Raw Organic Apple Cider Vinegar (Carboxylic acid), Organic (MCT) Fractionated Coconut Oil (Caprylic/Capric triglyceride Oil), Quillaja Extract (Quillaja saponaria Wood Oil)

CAS#: Custom Blend, 8028-52-2, 8001-31-8, 8047-15-2,

Country of Origin: United States

Lot Number: ACV500C190717, 19198

Manufacturing Date: 7/17/2019

Expiration Date: 7/17/2021

*Store in air tight container; in a cool dry area; away from direct sunlight.*

## Organoleptic Testing:

| Properties        | Specifications   | Results  |
|-------------------|--|----------|
| Appearance:       | Smooth amber to smooth orange liquid.                            | Conforms |
| Flavor:           | Strong apple cider vinegar flavor with slight herbal aftertaste. | Conforms |
| Odor:             | Characteristic of Apple Cider Vinegar.                           | Conforms |
| Solubility:       | Soluble.   | Conforms |
| Specific Gravity: | 0.959 - 1.069 @ 20° C (68° F)                                    | 1.007    |

## Heavy Metal Analysis: ICP-MS

| Symbol | Metal   | Concentration/Units | MDL | Use Limits/Units | Status |
|--------|---------|---------------------|-----|------------------|--------|
| As     | Arsenic | 7 µg/kg             | 4   | 200/1500 µg/kg   | Pass   |
| Cd     | Cadmium | 3 µg/kg             | 1   | 200/500 µg/kg    | Pass   |
| Hg     | Mercury | 4 µg/kg             | 2   | 100/1500 µg/kg   | Pass   |
| Pb     | Lead    | ND µg/kg            | 2   | 500/1000 µg/kg   | Pass   |

## Microbial Contaminants: PCR

| Test                   | Unit  | Result        |
|------------------------|-------|---------------|
| Total Aerobic Count    | CFU/g | None Detected |
| Total Coliforms        | CFU/g | None Detected |
| Total Yeasts and Molds | CFU/g | None Detected |
| E. coli                | CFU/g | None Detected |
| Salmonella             | CFU/g | None Detected |

## Pesticides: GC QQQ

| Pesticide     | Action Level (ppm) | Results (ppm) | Pesticide       | Action Level (ppm) | Results (ppm) |
|---------------|--------------------|---------------|-----------------|--------------------|---------------|
| Abamectin B1A | 0.100              | None Detected | Imadacloprid    | 5.000              | None Detected |
| Acephate      | 0.100              | None Detected | Kresoxim-methyl | 0.100              | None Detected |
| Acequinocyl   | 0.100              | None Detected | Malathion       | 0.500              | None Detected |
| Acetamiprid   | 0.100              | None Detected | Metalaxyl       | 2.000              | None Detected |





|                     |        |               |                     |       |               |
|---------------------|--------|---------------|---------------------|-------|---------------|
| Aldicarb            | 0.100  | None Detected | Methicarb           | 0.100 | None Detected |
| Azoxystrobin        | 0.100  | None Detected | Methomyl            | 1.000 | None Detected |
| Bifenazate          | 0.100  | None Detected | Mevinphos           | 0.100 | None Detected |
| Bifenthrin          | 3.000  | None Detected | Myclobutanil        | 0.100 | None Detected |
| Boscalid            | 0.100  | None Detected | Naled               | 0.100 | None Detected |
| Carbaryl            | 0.500  | None Detected | Oxamyl              | 0.500 | None Detected |
| Carbofuran          | 0.100  | None Detected | Paclobutrazol       | 0.100 | None Detected |
| Chlorantraniliprole | 10.000 | None Detected | Permethrins         | 0.500 | None Detected |
| Chlorpyrifos        | 0.100  | None Detected | Phosmet             | 0.100 | None Detected |
| Clofentezine        | 0.100  | None Detected | Piperonyl Butoxide  | 3.000 | None Detected |
| Daminozide          | 0.100  | None Detected | Prallethrin         | 0.100 | None Detected |
| Diazanone           | 0.100  | None Detected | Propiconazole       | 0.100 | None Detected |
| Dichlorvos          | 0.100  | None Detected | Propoxur Pyrethrins | 0.500 | None Detected |
| Dimethoate          | 0.100  | None Detected | Pyridaben           | 0.100 | None Detected |
| Dimethomorph        | 2.000  | None Detected | Spinetoram          | 0.100 | None Detected |
| Ethoprophos         | 0.100  | None Detected | Spinosad            | 0.100 | None Detected |
| Etofenprox          | 0.100  | None Detected | Spiromesifen        | 0.100 | None Detected |
| Etoxazole           | 0.100  | None Detected | Spirotetramat       | 0.100 | None Detected |
| Fenhexamid          | 0.100  | None Detected | Spiroxamine         | 0.100 | None Detected |
| Fenoxycarb          | 0.100  | None Detected | Tebuconazole        | 0.100 | None Detected |
| Fenpyroximate       | 0.100  | None Detected | Thiacloprid         | 0.100 | None Detected |
| Fipronil            | 0.100  | None Detected | Thiamethoxam        | 0.100 | None Detected |
| Fonicamid           | 0.100  | None Detected | Trifloxystrobin     | 5.000 | None Detected |
| Fludioxonil         | 0.100  | None Detected |                     |       |               |
| Hexythiazox         | 0.100  | None Detected |                     |       |               |
| Imazalil            | 0.100  | None Detected |                     |       |               |

#### Residual Solvents: GC

| Solvent                       | Reportable Range (ppm) | Result (ppm) | Solvent                   | Reportable Range (ppm) | Result (ppm) |
|-------------------------------|------------------------|--------------|---------------------------|------------------------|--------------|
| Propane                       | 100-2000               | 0            | Hexane                    | 6-120                  | 0            |
| Butanes (Isobutane, n-Butane) | 100-2000               | 0            | Benzene                   | 0.2-4.0                | 0.0          |
| Pentane                       | 100-2000               | 0            | Heptanes                  | 100-2000               | 0            |
| Ethanol                       | 100-2000               | 0            | Toluene                   | 18-360                 | 0            |
| Acetone                       | 100-2000               | 0            | Xylenes (m, p, o-Xylenes) | 46-860                 | 0            |
| Isopropyl Alcohol             | 100-2000               | 0            |                           |                        |              |

#### Mycotoxin Analysis: LC-MS

| Analyte      | Action Level (ppb) | Results (ppb) |
|--------------|--------------------|---------------|
| Aflatoxin B1 | 20.000             | None Detected |
| Aflatoxin B2 | 20.000             | None Detected |
| Aflatoxin G1 | 20.000             | None Detected |
| Aflatoxin G2 | 20.000             | None Detected |

Ochratoxin A

20.000

None Detected

**Cannabinoid Analysis Profile**

| <b>Cannabinoid</b> | <b>mg/g</b> | <b>%</b> | <b>Cannabinoid</b> | <b>mg/g</b> | <b>%</b> |
|--------------------|-------------|----------|--------------------|-------------|----------|
| THC                | ND          | 0.00%    | CBGa               | ND          | 0.00%    |
| THCa               | ND          | 0.00%    | THCV               | ND          | 0.00%    |
| CBD                | 16.55 mg/g  | 1.65%    | THCVa              | ND          | 0.00%    |
| CBDa               | ND          | 0.00%    | Delta 8 – THC      | ND          | 0.00%    |
| CBN                | ND          | 0.00%    | CBC                | ND          | 0.00%    |
| CBDV               | ND          | 0.00%    | CBCa               | ND          | 0.00%    |
| CBDVa              | ND          | 0.00%    | CBL                | ND          | 0.00%    |
| CBG                | ND          | 0.00%    |                    |             |          |

**Summary**

- Organoleptic Analysis: **Pass**
- Heavy Metal Analysis: **Pass**
- Microbial Analysis: **None Detected**
- Pesticide Analysis: **None Detected**
- Residual Solvent Analysis: **None Detected**
- Mycotoxin Analysis: **None Detected**
- Terpene Analysis: **Unadulterated, no traces of synthetic additives.**

**DISCLAIMER:**

The information contained in this Certificate of Analysis is obtained from current and reliable sources. Nature's Fusions provides the information contained herein in good faith but makes no representation as to its comprehensiveness or accuracy. Individuals receiving this information must exercise their independent judgment in determining its appropriateness for a particular purpose. As the ordinary or otherwise use(s) of this product is outside the control of Nature's Fusions, no representation or warranty, expressed or implied, is made as to the effect(s) of such use(s), (including damage or injury), or the results obtained. Nature's Fusions expressly disclaims responsibility as to the ordinary or otherwise use(s). Furthermore, nothing contained herein should be considered as a recommendation by Nature's Fusions as to the fitness for any use. The liability of Nature's Fusions is limited to the value of the goods and does not include any consequential loss. Nature's Fusions shall not be liable for any errors or delays in the content, or for any actions taken in reliance thereon. Nature's Fusions shall not be responsible for any damages resulting from use of or reliance upon this information. The user of the product is solely responsible for compliance with all laws and regulations applying to the use of the products, including intellectual property rights of third parties.

Kayla Mann 10/29/2019  
 Kayla Mann Date  
 Documentation Specialist

# CERTIFICATE OF ANALYSIS

Product: AdvanCBD THC-Free Water Soluble Hemp Extract Apple Cider Vinegar Tincture 500/30mL

Common/INCI Name: Water Soluble Hemp Extract w/added Terpenes (N/A), Raw Organic Apple Cider Vinegar (Carboxylic acid), Organic (MCT) Fractionated Coconut Oil (Caprylic/Capric triglyceride Oil), Quillaja Extract (Quillaja saponaria Wood Oil)

CAS#: Custom Blend, 8028-52-2, 8001-31-8, 8047-15-2,

Country of Origin: United States

Lot Number: ACV500C190605, 19170

Manufacturing Date: 6/19/2019

Expiration Date: 6/19/2021

*Store in air tight container; in a cool dry area; away from direct sunlight.*

## Organoleptic Testing:

| Properties        | Specifications   | Results  |
|-------------------|--|----------|
| Appearance:       | Smooth amber to smooth orange liquid.                            | Conforms |
| Flavor:           | Strong apple cider vinegar flavor with slight herbal aftertaste. | Conforms |
| Odor:             | Characteristic of Apple Cider Vinegar.                           | Conforms |
| Solubility:       | Soluble.   | Conforms |
| Specific Gravity: | 0.959 - 1.069 @ 20° C (68° F)                                    | 1.007    |

## Heavy Metal Analysis: ICP-MS

| Symbol | Metal   | Concentration/Units | MDL | Use Limits/Units | Status |
|--------|---------|---------------------|-----|------------------|--------|
| As     | Arsenic | 7 µg/kg             | 4   | 200/1500 µg/kg   | Pass   |
| Cd     | Cadmium | 3 µg/kg             | 1   | 200/500 µg/kg    | Pass   |
| Hg     | Mercury | 4 µg/kg             | 2   | 100/1500 µg/kg   | Pass   |
| Pb     | Lead    | ND µg/kg            | 2   | 500/1000 µg/kg   | Pass   |

## Microbial Contaminants: PCR

| Test                   | Unit  | Result        |
|------------------------|-------|---------------|
| Total Aerobic Count    | CFU/g | None Detected |
| Total Coliforms        | CFU/g | None Detected |
| Total Yeasts and Molds | CFU/g | None Detected |
| E. coli                | CFU/g | None Detected |
| Salmonella             | CFU/g | None Detected |

## Pesticides: GC QQQ

| Pesticide     | Action Level (ppm) | Results (ppm) | Pesticide       | Action Level (ppm) | Results (ppm) |
|---------------|--------------------|---------------|-----------------|--------------------|---------------|
| Abamectin B1A | 0.100              | None Detected | Imadacloprid    | 5.000              | None Detected |
| Acephate      | 0.100              | None Detected | Kresoxim-methyl | 0.100              | None Detected |
| Acequinocyl   | 0.100              | None Detected | Malathion       | 0.500              | None Detected |
| Acetamiprid   | 0.100              | None Detected | Metalaxyl       | 2.000              | None Detected |



|                     |        |               |                     |       |               |
|---------------------|--------|---------------|---------------------|-------|---------------|
| Aldicarb            | 0.100  | None Detected | Methicarb           | 0.100 | None Detected |
| Azoxystrobin        | 0.100  | None Detected | Methomyl            | 1.000 | None Detected |
| Bifenazate          | 0.100  | None Detected | Mevinphos           | 0.100 | None Detected |
| Bifenthrin          | 3.000  | None Detected | Myclobutanil        | 0.100 | None Detected |
| Boscalid            | 0.100  | None Detected | Naled               | 0.100 | None Detected |
| Carbaryl            | 0.500  | None Detected | Oxamyl              | 0.500 | None Detected |
| Carbofuran          | 0.100  | None Detected | Paclobutrazol       | 0.100 | None Detected |
| Chlorantraniliprole | 10.000 | None Detected | Permethrins         | 0.500 | None Detected |
| Chlorpyrifos        | 0.100  | None Detected | Phosmet             | 0.100 | None Detected |
| Clofentezine        | 0.100  | None Detected | Piperonyl Butoxide  | 3.000 | None Detected |
| Daminozide          | 0.100  | None Detected | Prallethrin         | 0.100 | None Detected |
| Diazanone           | 0.100  | None Detected | Propiconazole       | 0.100 | None Detected |
| Dichlorvos          | 0.100  | None Detected | Propoxur Pyrethrins | 0.500 | None Detected |
| Dimethoate          | 0.100  | None Detected | Pyridaben           | 0.100 | None Detected |
| Dimethomorph        | 2.000  | None Detected | Spinetoram          | 0.100 | None Detected |
| Ethoprophos         | 0.100  | None Detected | Spinosad            | 0.100 | None Detected |
| Etofenprox          | 0.100  | None Detected | Spiromesifen        | 0.100 | None Detected |
| Etoxazole           | 0.100  | None Detected | Spirotetramat       | 0.100 | None Detected |
| Fenhexamid          | 0.100  | None Detected | Spiroxamine         | 0.100 | None Detected |
| Fenoxycarb          | 0.100  | None Detected | Tebuconazole        | 0.100 | None Detected |
| Fenpyroximate       | 0.100  | None Detected | Thiacloprid         | 0.100 | None Detected |
| Fipronil            | 0.100  | None Detected | Thiamethoxam        | 0.100 | None Detected |
| Fonicamid           | 0.100  | None Detected | Trifloxystrobin     | 5.000 | None Detected |
| Fludioxonil         | 0.100  | None Detected |                     |       |               |
| Hexythiazox         | 0.100  | None Detected |                     |       |               |
| Imazalil            | 0.100  | None Detected |                     |       |               |

#### Residual Solvents: GC

| Solvent                       | Reportable Range (ppm) | Result (ppm) | Solvent                       | Reportable Range (ppm) | Result (ppm) |
|-------------------------------|------------------------|--------------|-------------------------------|------------------------|--------------|
| Propane                       | 100-2000               | 0            | Hexane                        | 6-120                  | 0            |
| Butanes (Isobutane, n-Butane) | 100-2000               | 0            | Benzene                       | 0.2-4.0                | 0.0          |
| Pentane                       | 100-2000               | 0            | Heptanes                      | 100-2000               | 0            |
| Ethanol                       | 100-2000               | 0            | Toluene                       | 18-360                 | 0            |
| Acetone                       | 100-2000               | 0            | Xylenes (m, p, o-<br>Xylenes) | 46-860                 | 0            |
| Isopropyl Alcohol             | 100-2000               | 0            |                               |                        |              |

#### Mycotoxin Analysis: LC-MS

| Analyte      | Action Level (ppb) | Results (ppb) |
|--------------|--------------------|---------------|
| Aflatoxin B1 | 20.000             | None Detected |
| Aflatoxin B2 | 20.000             | None Detected |
| Aflatoxin G1 | 20.000             | None Detected |
| Aflatoxin G2 | 20.000             | None Detected |

Ochratoxin A

20.000

None Detected

**Cannabinoid Analysis Profile**

| <b>Cannabinoid</b> | <b>mg/g</b> | <b>%</b> | <b>Cannabinoid</b> | <b>mg/g</b> | <b>%</b> |
|--------------------|-------------|----------|--------------------|-------------|----------|
| THC                | ND          | 0.00%    | CBGa               | ND          | 0.00%    |
| THCa               | ND          | 0.00%    | THCV               | ND          | 0.00%    |
| CBD                | 16.55 mg/g  | 1.65%    | THCVa              | ND          | 0.00%    |
| CBDa               | ND          | 0.00%    | Delta 8 – THC      | ND          | 0.00%    |
| CBN                | ND          | 0.00%    | CBC                | ND          | 0.00%    |
| CBDV               | ND          | 0.00%    | CBCa               | ND          | 0.00%    |
| CBDVa              | ND          | 0.00%    | CBL                | ND          | 0.00%    |
| CBG                | ND          | 0.00%    |                    |             |          |

**Summary**

- Organoleptic Analysis: **Pass**
- Heavy Metal Analysis: **Pass**
- Microbial Analysis: **None Detected**
- Pesticide Analysis: **None Detected**
- Residual Solvent Analysis: **None Detected**
- Mycotoxin Analysis: **None Detected**
- Terpene Analysis: **Unadulterated, no traces of synthetic additives.**

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Kayla Mann 10/29/2019  
 Kayla Mann Date  
 Documentation Specialist

## CERTIFICATE OF ANALYSIS

Product: AdvanCBD THC-Free Water Soluble Hemp Extract Apple Cider Vinegar Tincture  
1000/30mL

Common/INCI Name: Apple Cider Vinegar (N/A), Organic (MCT) Fractionated Coconut Oil (Caprylic/Capric triglyceride Oil), Quillaja Extract (Quillaja saponaria Wood Oil), Water Soluble Hemp Extract w/added Terpenes (N/A)

CAS#: 8028-52-2, Custom Blend, 8001-31-8, 68990-67-0

Country of Origin: United States

Lot Number: ACV1000C200507, 20 127 *Store in air tight container; in a cool dry area; away from direct sunlight.*

Manufacturing Date: 5/7/2020

Expiration Date: 5/7/2022

### Organoleptic Testing:

| Properties        | Specifications   | Results  |
|-------------------|--|----------|
| Appearance:       | Smooth amber to smooth orange liquid.                            | Conforms |
| Flavor:           | Strong apple cider vinegar flavor with slight herbal aftertaste. | Conforms |
| Odor:             | Characteristic of Apple Cider Vinegar.                           | Conforms |
| Solubility:       | Soluble.   | Conforms |
| Specific Gravity: | 0.959 - 1.069 @ 20° C (68° F)                                    | 1.005    |

### Heavy Metal Analysis: ICP-MS

| Symbol | Metal   | Concentration/Units | MDL | Use Limits/Units | Status |
|--------|---------|---------------------|-----|------------------|--------|
| As     | Arsenic | 7 µg/kg             | 4   | 200/1500 µg/kg   | Pass   |
| Cd     | Cadmium | 3 µg/kg             | 1   | 200/500 µg/kg    | Pass   |
| Hg     | Mercury | 4 µg/kg             | 2   | 100/1500 µg/kg   | Pass   |
| Pb     | Lead    | ND µg/kg            | 2   | 500/1000 µg/kg   | Pass   |

### Microbial Contaminants: PCR

| Test                   | Unit  | Result        |
|------------------------|-------|---------------|
| Total Aerobic Count    | CFU/g | None Detected |
| Total Coliforms        | CFU/g | None Detected |
| Total Yeasts and Molds | CFU/g | None Detected |
| E. coli                | CFU/g | None Detected |
| Salmonella             | CFU/g | None Detected |

### Pesticides: GC QQQ

| Pesticide     | Action Level (ppm) | Results (ppm) | Pesticide       | Action Level (ppm) | Results (ppm) |
|---------------|--------------------|---------------|-----------------|--------------------|---------------|
| Abamectin B1A | 0.100              | None Detected | Imadacloprid    | 5.000              | None Detected |
| Acephate      | 0.100              | None Detected | Kresoxim-methyl | 0.100              | None Detected |



|                    |        |               |                     |       |               |
|--------------------|--------|---------------|---------------------|-------|---------------|
| Acequinocyl        | 0.100  | None Detected | Malathion           | 0.500 | None Detected |
| Acetamidprid       | 0.100  | None Detected | Metalaxyl           | 2.000 | None Detected |
| Aldicarb           | 0.100  | None Detected | Methicarb           | 0.100 | None Detected |
| Azoxystrobin       | 0.100  | None Detected | Methomyl            | 1.000 | None Detected |
| Bifenazate         | 0.100  | None Detected | Mevinphos           | 0.100 | None Detected |
| Bifenthrin         | 3.000  | None Detected | Myclobutanil        | 0.100 | None Detected |
| Boscalid           | 0.100  | None Detected | Naled               | 0.100 | None Detected |
| Carbaryl           | 0.500  | None Detected | Oxamyl              | 0.500 | None Detected |
| Carbofuran         | 0.100  | None Detected | Paclobutrazol       | 0.100 | None Detected |
| Chlorantranilprole | 10.000 | None Detected | Permethrins         | 0.500 | None Detected |
| Chlorpyrifos       | 0.100  | None Detected | Phosmet             | 0.100 | None Detected |
| Clofentezine       | 0.100  | None Detected | Piperonyl Butoxide  | 3.000 | None Detected |
| Daminozide         | 0.100  | None Detected | Prallethrin         | 0.100 | None Detected |
| Diazanone          | 0.100  | None Detected | Propiconazole       | 0.100 | None Detected |
| Dichlorvos         | 0.100  | None Detected | Propoxur Pyrethrins | 0.500 | None Detected |
| Dimethoate         | 0.100  | None Detected | Pyridaben           | 0.100 | None Detected |
| Dimethomorph       | 2.000  | None Detected | Spinetoram          | 0.100 | None Detected |
| Ethoprophos        | 0.100  | None Detected | Spinosad            | 0.100 | None Detected |
| Etofenprox         | 0.100  | None Detected | Spiromesifen        | 0.100 | None Detected |
| Etoxazole          | 0.100  | None Detected | Spirotetramat       | 0.100 | None Detected |
| Fenhexamid         | 0.100  | None Detected | Spiroxamine         | 0.100 | None Detected |
| Fenoxycarb         | 0.100  | None Detected | Tebuconazole        | 0.100 | None Detected |
| Fenpyroximate      | 0.100  | None Detected | Thiacloprid         | 0.100 | None Detected |
| Fipronil           | 0.100  | None Detected | Thiamethoxam        | 0.100 | None Detected |
| Flonicamid         | 0.100  | None Detected | Trifloxystrobin     | 5.000 | None Detected |
| Fludioxonil        | 0.100  | None Detected |                     |       |               |
| Hexythiazox        | 0.100  | None Detected |                     |       |               |
| Imazalil           | 0.100  | None Detected |                     |       |               |

**Residual Solvents: GC**

| <b>Solvent</b>                | <b>Reportable Range (ppm)</b> | <b>Result (ppm)</b> | <b>Solvent</b>            | <b>Reportable Range (ppm)</b> | <b>Result (ppm)</b> |
|-------------------------------|-------------------------------|---------------------|---------------------------|-------------------------------|---------------------|
| Propane                       | 100-2000                      | 0                   | Hexane                    | 6-120                         | 0                   |
| Butanes (Isobutane, n-Butane) | 100-2000                      | 0                   | Benzene                   | 0.2-4.0                       | 0.0                 |
| Pentane                       | 100-2000                      | 0                   | Heptanes                  | 100-2000                      | 0                   |
| Ethanol                       | 100-2000                      | 0                   | Toluene                   | 18-360                        | 0                   |
| Acetone                       | 100-2000                      | 0                   | Xylenes (m, p, o-Xylenes) | 46-860                        | 0                   |
| Isopropyl Alcohol             | 100-2000                      | 0                   |                           |                               |                     |

**Mycotoxin Analysis: LC-MS**

| Analyte      | Action Level (ppb) | Results (ppb) |
|--------------|--------------------|---------------|
| Aflatoxin B1 | 20.000             | None Detected |
| Aflatoxin B2 | 20.000             | None Detected |
| Aflatoxin G1 | 20.000             | None Detected |
| Aflatoxin G2 | 20.000             | None Detected |
| Ochratoxin A | 20.000             | None Detected |

**Cannabinoid Analysis Profile**

| Cannabinoid | mg/g       | %     | Cannabinoid   | mg/g | %     |
|-------------|------------|-------|---------------|------|-------|
| THC         | ND         | 0.00% | CBGa          | ND   | 0.00% |
| THCa        | ND         | 0.00% | THCV          | ND   | 0.00% |
| CBD         | 33.18 mg/g | 3.32% | THCVa         | ND   | 0.00% |
| CBDa        | ND         | 0.00% | Delta 8 – THC | ND   | 0.00% |
| CBN         | ND         | 0.00% | CBC           | ND   | 0.00% |
| CBDV        | ND         | 0.00% | CBCa          | ND   | 0.00% |
| CBDVa       | ND         | 0.00% | CBL           | ND   | 0.00% |
| CBG         | ND         | 0.00% |               |      |       |

**CBD Analysis Specs: 1000mg +/- 50mg per bottle**

**Summary**

|                            |   |
|----------------------------|---|
| Organoleptic Analysis:     | <b>Pass</b>   |
| Heavy Metal Analysis:      | <b>Pass</b>   |
| Microbial Analysis:        | <b>None Detected</b>                                    |
| Pesticide Analysis:        | <b>None Detected</b>                                    |
| Residual Solvent Analysis: | <b>None Detected</b>                                    |
| Mycotoxin Analysis:        | <b>None Detected</b>                                    |
| CBD Analysis:              | <b>Within Range</b>                                     |
| Product Analysis:          | <b>Unadulterated, no traces of synthetic additives.</b> |

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*Kayla Mann 05/18/2020*

Kayla Mann Date

Documentation Specialist



# CERTIFICATE OF ANALYSIS

Product: AdvanCBD THC-Free Water Soluble Hemp Extract Apple Cider Vinegar Tincture 1000/30mL

Common/INCI Name: Water Soluble Hemp Extract w/added Terpenes (N/A), Raw Organic Apple Cider Vinegar (Carboxylic acid), Organic (MCT) Fractionated Coconut Oil (Caprylic/Capric triglyceride Oil), Quillaja Extract (Quillaja saponaria Wood Oil)

CAS#: Custom Blend, 8028-52-2, 8001-31-8, 8047-15-2,

Country of Origin: United States

Lot Number: ACV1000C190605, 19170

Manufacturing Date: 6/19/2019

Expiration Date: 6/19/2021

*Store in air tight container; in a cool dry area; away from direct sunlight.*

## Organoleptic Testing:

| Properties        | Specifications   | Results  |
|-------------------|--|----------|
| Appearance:       | Smooth amber to smooth orange liquid.                            | Conforms |
| Flavor:           | Strong apple cider vinegar flavor with slight herbal aftertaste. | Conforms |
| Odor:             | Characteristic of Apple Cider Vinegar.                           | Conforms |
| Solubility:       | Soluble.   | Conforms |
| Specific Gravity: | 0.959 - 1.069 @ 20° C (68° F)                                    | 1.005    |

## Heavy Metal Analysis: ICP-MS

| Symbol | Metal   | Concentration/Units | MDL | Use Limits/Units | Status |
|--------|---------|---------------------|-----|------------------|--------|
| As     | Arsenic | 7 µg/kg             | 4   | 200/1500 µg/kg   | Pass   |
| Cd     | Cadmium | 3 µg/kg             | 1   | 200/500 µg/kg    | Pass   |
| Hg     | Mercury | 4 µg/kg             | 2   | 100/1500 µg/kg   | Pass   |
| Pb     | Lead    | ND µg/kg            | 2   | 500/1000 µg/kg   | Pass   |

## Microbial Contaminants: PCR

| Test                   | Unit  | Result        |
|------------------------|-------|---------------|
| Total Aerobic Count    | CFU/g | None Detected |
| Total Coliforms        | CFU/g | None Detected |
| Total Yeasts and Molds | CFU/g | None Detected |
| E. coli                | CFU/g | None Detected |
| Salmonella             | CFU/g | None Detected |



## Pesticides: GC QQQ

| Pesticide     | Action Level (ppm) | Results (ppm) | Pesticide       | Action Level (ppm) | Results (ppm) |
|---------------|--------------------|---------------|-----------------|--------------------|---------------|
| Abamectin B1A | 0.100              | None Detected | Imadacloprid    | 5.000              | None Detected |
| Acephate      | 0.100              | None Detected | Kresoxim-methyl | 0.100              | None Detected |
| Acequinocyl   | 0.100              | None Detected | Malathion       | 0.500              | None Detected |
| Acetamiprid   | 0.100              | None Detected | Metalaxyl       | 2.000              | None Detected |

|                     |        |               |                     |       |               |
|---------------------|--------|---------------|---------------------|-------|---------------|
| Aldicarb            | 0.100  | None Detected | Methicarb           | 0.100 | None Detected |
| Azoxystrobin        | 0.100  | None Detected | Methomyl            | 1.000 | None Detected |
| Bifenazate          | 0.100  | None Detected | Mevinphos           | 0.100 | None Detected |
| Bifenthrin          | 3.000  | None Detected | Myclobutanil        | 0.100 | None Detected |
| Boscalid            | 0.100  | None Detected | Naled               | 0.100 | None Detected |
| Carbaryl            | 0.500  | None Detected | Oxamyl              | 0.500 | None Detected |
| Carbofuran          | 0.100  | None Detected | Paclobutrazol       | 0.100 | None Detected |
| Chlorantraniliprole | 10.000 | None Detected | Permethrins         | 0.500 | None Detected |
| Chlorpyrifos        | 0.100  | None Detected | Phosmet             | 0.100 | None Detected |
| Clofentezine        | 0.100  | None Detected | Piperonyl Butoxide  | 3.000 | None Detected |
| Daminozide          | 0.100  | None Detected | Prallethrin         | 0.100 | None Detected |
| Diazanone           | 0.100  | None Detected | Propiconazole       | 0.100 | None Detected |
| Dichlorvos          | 0.100  | None Detected | Propoxur Pyrethrins | 0.500 | None Detected |
| Dimethoate          | 0.100  | None Detected | Pyridaben           | 0.100 | None Detected |
| Dimethomorph        | 2.000  | None Detected | Spinetoram          | 0.100 | None Detected |
| Ethoprophos         | 0.100  | None Detected | Spinosad            | 0.100 | None Detected |
| Etofenprox          | 0.100  | None Detected | Spiromesifen        | 0.100 | None Detected |
| Etoxazole           | 0.100  | None Detected | Spirotetramat       | 0.100 | None Detected |
| Fenhexamid          | 0.100  | None Detected | Spiroxamine         | 0.100 | None Detected |
| Fenoxycarb          | 0.100  | None Detected | Tebuconazole        | 0.100 | None Detected |
| Fenpyroximate       | 0.100  | None Detected | Thiacloprid         | 0.100 | None Detected |
| Fipronil            | 0.100  | None Detected | Thiamethoxam        | 0.100 | None Detected |
| Fonicamid           | 0.100  | None Detected | Trifloxystrobin     | 5.000 | None Detected |
| Fludioxonil         | 0.100  | None Detected |                     |       |               |
| Hexythiazox         | 0.100  | None Detected |                     |       |               |
| Imazalil            | 0.100  | None Detected |                     |       |               |

#### Residual Solvents: GC

| Solvent                       | Reportable Range (ppm) | Result (ppm) | Solvent                    | Reportable Range (ppm) | Result (ppm) |
|-------------------------------|------------------------|--------------|----------------------------|------------------------|--------------|
| Propane                       | 100-2000               | 0            | Hexane                     | 6-120                  | 0            |
| Butanes (Isobutane, n-Butane) | 100-2000               | 0            | Benzene                    | 0.2-4.0                | 0.0          |
| Pentane                       | 100-2000               | 0            | Heptanes                   | 100-2000               | 0            |
| Ethanol                       | 100-2000               | 0            | Toluene                    | 18-360                 | 0            |
| Acetone                       | 100-2000               | 0            | Xylenes (m, p, o- Xylenes) | 46-860                 | 0            |
| Isopropyl Alcohol             | 100-2000               | 0            |                            |                        |              |

#### Mycotoxin Analysis: LC-MS

| Analyte      | Action Level (ppb) | Results (ppb) |
|--------------|--------------------|---------------|
| Aflatoxin B1 | 20.000             | None Detected |
| Aflatoxin B2 | 20.000             | None Detected |
| Aflatoxin G1 | 20.000             | None Detected |
| Aflatoxin G2 | 20.000             | None Detected |

Ochratoxin A

20.000

None Detected

**Cannabinoid Analysis Profile**

| <b>Cannabinoid</b> | <b>mg/g</b> | <b>%</b> | <b>Cannabinoid</b> | <b>mg/g</b> | <b>%</b> |
|--------------------|-------------|----------|--------------------|-------------|----------|
| THC                | ND          | 0.00%    | CBGa               | ND          | 0.00%    |
| THCa               | ND          | 0.00%    | THCV               | ND          | 0.00%    |
| CBD                | 33.18 mg/g  | 3.32%    | THCVa              | ND          | 0.00%    |
| CBDa               | ND          | 0.00%    | Delta 8 – THC      | ND          | 0.00%    |
| CBN                | ND          | 0.00%    | CBC                | ND          | 0.00%    |
| CBDV               | ND          | 0.00%    | CBCa               | ND          | 0.00%    |
| CBDVa              | ND          | 0.00%    | CBL                | ND          | 0.00%    |
| CBG                | ND          | 0.00%    |                    |             |          |

**Summary**

- Organoleptic Analysis: **Pass**
- Heavy Metal Analysis: **Pass**
- Microbial Analysis: **None Detected**
- Pesticide Analysis: **None Detected**
- Residual Solvent Analysis: **None Detected**
- Mycotoxin Analysis: **None Detected**
- Terpene Analysis: **Unadulterated, no traces of synthetic additives.**

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Kayla Mann 10/29/2019  
 Kayla Mann Date  
 Documentation Specialist



# CERTIFICATE OF ANALYSIS

Product: AdvanCBD THC-Free Water Soluble Hemp Extract Apple Cider Vinegar Tincture 1000/30mL

Common/INCI Name: Water Soluble Hemp Extract w/added Terpenes (N/A), Raw Organic Apple Cider Vinegar (Carboxylic acid), Organic (MCT) Fractionated Coconut Oil (Caprylic/Capric triglyceride Oil), Quillaja Extract (Quillaja saponaria Wood Oil)

CAS#: Custom Blend, 8028-52-2, 8001-31-8, 8047-15-2,

Country of Origin: United States

Lot Number: ACV1000C190717, 19198

Manufacturing Date: 7/17/2019

Expiration Date: 7/17/2021

*Store in air tight container; in a cool dry area; away from direct sunlight.*

## Organoleptic Testing:

| Properties        | Specifications   | Results  |
|-------------------|--|----------|
| Appearance:       | Smooth amber to smooth orange liquid.                            | Conforms |
| Flavor:           | Strong apple cider vinegar flavor with slight herbal aftertaste. | Conforms |
| Odor:             | Characteristic of Apple Cider Vinegar.                           | Conforms |
| Solubility:       | Soluble.   | Conforms |
| Specific Gravity: | 0.959 - 1.069 @ 20° C (68° F)                                    | 1.005    |

## Heavy Metal Analysis: ICP-MS

| Symbol | Metal   | Concentration/Units | MDL | Use Limits/Units | Status |
|--------|---------|---------------------|-----|------------------|--------|
| As     | Arsenic | 7 µg/kg             | 4   | 200/1500 µg/kg   | Pass   |
| Cd     | Cadmium | 3 µg/kg             | 1   | 200/500 µg/kg    | Pass   |
| Hg     | Mercury | 4 µg/kg             | 2   | 100/1500 µg/kg   | Pass   |
| Pb     | Lead    | ND µg/kg            | 2   | 500/1000 µg/kg   | Pass   |

## Microbial Contaminants: PCR

| Test                   | Unit  | Result        |
|------------------------|-------|---------------|
| Total Aerobic Count    | CFU/g | None Detected |
| Total Coliforms        | CFU/g | None Detected |
| Total Yeasts and Molds | CFU/g | None Detected |
| E. coli                | CFU/g | None Detected |
| Salmonella             | CFU/g | None Detected |



## Pesticides: GC QQQ

| Pesticide     | Action Level (ppm) | Results (ppm) | Pesticide       | Action Level (ppm) | Results (ppm) |
|---------------|--------------------|---------------|-----------------|--------------------|---------------|
| Abamectin B1A | 0.100              | None Detected | Imadacloprid    | 5.000              | None Detected |
| Acephate      | 0.100              | None Detected | Kresoxim-methyl | 0.100              | None Detected |
| Acequinocyl   | 0.100              | None Detected | Malathion       | 0.500              | None Detected |
| Acetamiprid   | 0.100              | None Detected | Metalaxyl       | 2.000              | None Detected |

|                     |        |               |                     |       |               |
|---------------------|--------|---------------|---------------------|-------|---------------|
| Aldicarb            | 0.100  | None Detected | Methicarb           | 0.100 | None Detected |
| Azoxystrobin        | 0.100  | None Detected | Methomyl            | 1.000 | None Detected |
| Bifenazate          | 0.100  | None Detected | Mevinphos           | 0.100 | None Detected |
| Bifenthrin          | 3.000  | None Detected | Myclobutanil        | 0.100 | None Detected |
| Boscalid            | 0.100  | None Detected | Naled               | 0.100 | None Detected |
| Carbaryl            | 0.500  | None Detected | Oxamyl              | 0.500 | None Detected |
| Carbofuran          | 0.100  | None Detected | Paclobutrazol       | 0.100 | None Detected |
| Chlorantraniliprole | 10.000 | None Detected | Permethrins         | 0.500 | None Detected |
| Chlorpyrifos        | 0.100  | None Detected | Phosmet             | 0.100 | None Detected |
| Clofentezine        | 0.100  | None Detected | Piperonyl Butoxide  | 3.000 | None Detected |
| Daminozide          | 0.100  | None Detected | Prallethrin         | 0.100 | None Detected |
| Diazanone           | 0.100  | None Detected | Propiconazole       | 0.100 | None Detected |
| Dichlorvos          | 0.100  | None Detected | Propoxur Pyrethrins | 0.500 | None Detected |
| Dimethoate          | 0.100  | None Detected | Pyridaben           | 0.100 | None Detected |
| Dimethomorph        | 2.000  | None Detected | Spinetoram          | 0.100 | None Detected |
| Ethoprophos         | 0.100  | None Detected | Spinosad            | 0.100 | None Detected |
| Etofenprox          | 0.100  | None Detected | Spiromesifen        | 0.100 | None Detected |
| Etoxazole           | 0.100  | None Detected | Spirotetramat       | 0.100 | None Detected |
| Fenhexamid          | 0.100  | None Detected | Spiroxamine         | 0.100 | None Detected |
| Fenoxycarb          | 0.100  | None Detected | Tebuconazole        | 0.100 | None Detected |
| Fenpyroximate       | 0.100  | None Detected | Thiacloprid         | 0.100 | None Detected |
| Fipronil            | 0.100  | None Detected | Thiamethoxam        | 0.100 | None Detected |
| Fonicamid           | 0.100  | None Detected | Trifloxystrobin     | 5.000 | None Detected |
| Fludioxonil         | 0.100  | None Detected |                     |       |               |
| Hexythiazox         | 0.100  | None Detected |                     |       |               |
| Imazalil            | 0.100  | None Detected |                     |       |               |

#### Residual Solvents: GC

| Solvent                       | Reportable Range (ppm) | Result (ppm) | Solvent                       | Reportable Range (ppm) | Result (ppm) |
|-------------------------------|------------------------|--------------|-------------------------------|------------------------|--------------|
| Propane                       | 100-2000               | 0            | Hexane                        | 6-120                  | 0            |
| Butanes (Isobutane, n-Butane) | 100-2000               | 0            | Benzene                       | 0.2-4.0                | 0.0          |
| Pentane                       | 100-2000               | 0            | Heptanes                      | 100-2000               | 0            |
| Ethanol                       | 100-2000               | 0            | Toluene                       | 18-360                 | 0            |
| Acetone                       | 100-2000               | 0            | Xylenes (m, p, o-<br>Xylenes) | 46-860                 | 0            |
| Isopropyl Alcohol             | 100-2000               | 0            |                               |                        |              |

#### Mycotoxin Analysis: LC-MS

| Analyte      | Action Level (ppb) | Results (ppb) |
|--------------|--------------------|---------------|
| Aflatoxin B1 | 20.000             | None Detected |
| Aflatoxin B2 | 20.000             | None Detected |
| Aflatoxin G1 | 20.000             | None Detected |
| Aflatoxin G2 | 20.000             | None Detected |

Ochratoxin A

20.000

None Detected

**Cannabinoid Analysis Profile**

| <b>Cannabinoid</b> | <b>mg/g</b> | <b>%</b> | <b>Cannabinoid</b> | <b>mg/g</b> | <b>%</b> |
|--------------------|-------------|----------|--------------------|-------------|----------|
| THC                | ND          | 0.00%    | CBGa               | ND          | 0.00%    |
| THCa               | ND          | 0.00%    | THCV               | ND          | 0.00%    |
| CBD                | 33.18 mg/g  | 3.32%    | THCVa              | ND          | 0.00%    |
| CBDa               | ND          | 0.00%    | Delta 8 – THC      | ND          | 0.00%    |
| CBN                | ND          | 0.00%    | CBC                | ND          | 0.00%    |
| CBDV               | ND          | 0.00%    | CBCa               | ND          | 0.00%    |
| CBDVa              | ND          | 0.00%    | CBL                | ND          | 0.00%    |
| CBG                | ND          | 0.00%    |                    |             |          |

**Summary**

- Organoleptic Analysis: **Pass**
- Heavy Metal Analysis: **Pass**
- Microbial Analysis: **None Detected**
- Pesticide Analysis: **None Detected**
- Residual Solvent Analysis: **None Detected**
- Mycotoxin Analysis: **None Detected**
- Terpene Analysis: **Unadulterated, no traces of synthetic additives.**

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