



## Certificate of Analysis

Compliance Test

### Client Information:

**RA Royal**  
41 enterprise dr  
Unit 101  
Bunnell, Florida 32110

Batch # 032425041  
Batch Date: 2025-03-25  
Extracted From: Hemp

Test Reg State: Georgia

Production Facility: RA Royal

Order # RAR250331-020001

Order Date: 2025-03-31

Sample # AAG0189

Net Weight per Serving: 5000 mg

Sampling Date: 2025-04-03

Lab Batch Date: 2025-04-03

Completion Date: 2025-04-18

Serving Number: 30.00000

Initial Gross Weight: 200.800 g

Number of Units: 1

Net Weight per Package: 150000.000 mg

Sampling Method: MSP 7.3.1



Product Image



**Potency  
Tested**



**HHCP  
Tested**



**Pathogenic Microbiology  
Tested**



**Heavy Metals  
Passed**



**Mycotoxins  
Passed**



**Pesticides  
Passed**



**Residual Solvents  
Passed**



**Microbiology  
Tested**



**Filtration and Foreign  
Passed**

### Potency (LCUV) (GA) + Potency 25 (LCUV)

Specimen Weight: 209.900 mg

### Tested

SOP13.001 (LCUV)



### Potency Summary

|                                                      |                                                          |
|------------------------------------------------------|----------------------------------------------------------|
| <b>Total HHC per Serving</b><br>2.475% 123.75 mg     | <b>Delta 9 THC per Serving</b><br>0.151% 7.55 mg         |
| <b>Total Active CBD per Serving</b><br>None Detected | <b>Total CBG per Serving</b><br>None Detected            |
| <b>Total CBN per Serving</b><br>0.056% 2.8 mg        | <b>Total Cannabinoids per Serving</b><br>7.952% 397.6 mg |
| <b>Total Active CBD Per Package</b><br>None Detected | <b>Total Active THC per Serving</b><br>5.05% 252.5 mg    |
| <b>Total Active THC Per Package</b><br>5.05% 7575 mg | <b>Delta 9 THC per Package</b><br>0.151% 226.5 mg        |
| <b>Total DELTA-9 THC</b><br>0.11% 165 mg             |                                                          |

Summary Results determined from two distinct Potency Tests - Potency (LCUV) (GA) + Potency 25 (LCUV)

### Pieces For Panel: 30

| Analyte               | Dilution (1:n) | LOD (mg/g) | LOQ (%) | Result (mg/g) | (%)    |
|-----------------------|----------------|------------|---------|---------------|--------|
| Delta-8 THC           | 10.000         | 2.60E-5    | 0.0015  | 48.8300       | 4.8830 |
| Delta9-THCP *         | 10.000         | 1.17E-5    | 0.0012  | 3.4940        | 0.3494 |
| Delta-9 THC           | 10.000         | 2.80E-4    | 0.075   | 1.1000        | 0.1100 |
| CBN                   | 10.000         | 1.40E-5    | 0.0015  | 0.5600        | 0.0560 |
| THCA-A                | 10.000         | 3.20E-5    | 0.0015  | 0.4100        | 0.0410 |
| Delta-8 THCV          | 10.000         | 4.00E-5    | 0.0015  | 0.2516        | 0.0252 |
| CBT                   | 10.000         | 2.00E-4    | 0.0015  | 0.1238        | 0.0124 |
| CBD                   | 10.000         | 5.40E-5    | 0.0015  | <LOQ          | <LOQ   |
| CBDA                  | 10.000         | 1.00E-5    | 0.0015  | <LOQ          | <LOQ   |
| CBG                   | 10.000         | 2.48E-4    | 0.0015  | <LOQ          | <LOQ   |
| CBGA                  | 10.000         | 8.00E-5    | 0.0015  | <LOQ          | <LOQ   |
| Delta-9 THC-O Acetate | 10.000         | 7.70E-5    | 0.003   | <LOQ          | <LOQ   |
| Exo-THC               | 10.000         | 2.30E-4    | 0.0015  | <LOQ          | <LOQ   |
| CBC                   | 10.000         | 2.76E-5    | 0.075   | <LOQ          | <LOQ   |
| CBCA                  | 10.000         | 1.07E-4    | 0.0015  | <LOQ          | <LOQ   |
| CBDV                  | 10.000         | 6.50E-5    | 0.0015  | <LOQ          | <LOQ   |
| CBDVA                 | 10.000         | 1.40E-5    | 0.0015  | <LOQ          | <LOQ   |
| CBL                   | 10.000         | 3.50E-5    | 0.0015  | <LOQ          | <LOQ   |
| CBNA                  | 10.000         | 9.50E-5    | 0.0015  | <LOQ          | <LOQ   |
| Delta-8 THC-O Acetate | 10.000         | 2.70E-5    | 0.003   | <LOQ          | <LOQ   |
| Delta8-THCP *         | 10.000         | 3.75E-4    | 0.0015  | <LOQ          | <LOQ   |
| THCB *                | 10.000         | 1.80E-4    | 0.00195 | <LOQ          | <LOQ   |
| THCH *                | 10.000         | 3.50E-4    | 0.00195 | <LOQ          | <LOQ   |
| THCV                  | 10.000         | 7.00E-6    | 0.0015  | <LOQ          | <LOQ   |
| THCVA                 | 10.000         | 4.70E-5    | 0.0015  | <LOQ          | <LOQ   |
| Total Active CBD      | 10.000         |            |         | <LOQ          | <LOQ   |
| Total Active THC      | 10.000         |            |         | 50.500        | 5.05   |

*Aixia Sun*

Aixia Sun Lab Director/Principal Scientist  
D.H.Sc., M.Sc., B.Sc., MT (AAB)



Definitions and Abbreviations used in this report: Total Active CBD = CBD + (CBD-A \* 0.877), \*Total CBDV = CBDV + (CBDVA \* 0.867), Total Delta-9 THC = Delta-9 THC + THCA, Total Active THC = Total Delta-9 THC + Delta-8 THC + Delta-10 THC + Delta-8 THC-O-Acetate + THC-O-Acetate + Delta-10 THC-O-Acetate, Total THCV = THCV + (THCVA \* 0.877), CBG Total = (CBGA \* 0.878) + CBG, CBN Total = (CBNA \* 0.876) + CBN, Total CBC = CBC + (CBCA \* 0.877), Total THC-O-Acetate = Delta 8 THC-O-Acetate + Delta 9 THC-O-Acetate, Total THCP = Delta8-THCP + Delta9-THCP, Total Cannabinoids = Total percentage of cannabinoids within the sample. (mg/ml) = Milligrams per Milliliter, LOQ = Limit of Quantitation, LOD = Limit of Detection, Dilution = Dilution Factor, (ppb) = Parts per Billion, (%) = Percent, (cfu/g) = Colony Forming Unit per Gram, (µg/g) = Microgram per Gram, (ppm) = Parts per Million, (ppm) = (µg/g), (aw) = Water Activity, (mg/Kg) = Milligram per Kilogram, The results apply to the sample as received.

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Test Reg State: Georgia

Production Facility: RA Royal

Order # RAR250331-020001  
Order Date: 2025-03-31  
Sample # AAG0189  
Net Weight per Serving: 5000 mg

Sampling Date: 2025-04-03  
Lab Batch Date: 2025-04-03  
Completion Date: 2025-04-18  
Serving Number: 30.00000

Initial Gross Weight: 200.800 g

Number of Units: 1  
Net Weight per Package: 150000.000 mg  
Sampling Method: MSP 7.3.1



**Microbiology Pathogenic AE qPCR - (GA)**

Specimen Weight: 1019.200 mg

Dilution Factor: 1.000

| Analyte                                         | Result (cfu/g) | Analyte | Result (cfu/g) |
|-------------------------------------------------|----------------|---------|----------------|
| Aspergillus (Flavus, Fumigatus, Niger, Terreus) | Passed         | STEC    | Passed         |

**Tested**

SOP13.029 (qPCR)



**Microbiology AC TYM BTGN plating - (GA)**

Specimen Weight: 998.600 mg

Dilution Factor: 1.000

| Analyte                              | LOQ (cfu/g) | Result (cfu/g) | Analyte          | LOQ (cfu/g) | Result (cfu/g) |
|--------------------------------------|-------------|----------------|------------------|-------------|----------------|
| Bile tolerant gram-negative bacteria | 100         | <100           | Total Yeast/Mold | 1000        | <1000          |
| Total Aerobic Count                  | 1000        | <1000          |                  |             |                |

**Tested**

SOP13.003 (Petrifilm)



**Filtration and Foreign Material - (GA)**

Specimen Weight: N/A Dilution Factor: 1.000

| Analyte      | Action Level (%) | Result (%) | Analyte  | Action Level (%) | Result (%) |
|--------------|------------------|------------|----------|------------------|------------|
| Covered Area | 10               | 0.000      | Weight % | 1                | 0.000      |
| Feces        | 0.5              | 0.000      |          |                  |            |

**Passed**

SOP13.020 (Electronic Balance)

Aixa Sun Lab Director/Principal Scientist  
D.H.Sc., M.Sc., B.Sc., MT (AAB)



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Sampling Method: MSP 7.3.1



### Heavy Metals - (GA) (Edible)

Specimen Weight: 252.400 mg

**Passed**  
SOP13.048 (ICP-MS)

Dilution Factor: 198.098

| Analyte      | LOD (ppb) | LOQ (ppb) | Action Level (ppb) | Result (ppb) | Analyte      | LOD (ppb) | LOQ (ppb) | Action Level (ppb) | Result (ppb) |
|--------------|-----------|-----------|--------------------|--------------|--------------|-----------|-----------|--------------------|--------------|
| Arsenic (As) | 0.013     | 100       | 500                | <LOQ         | Lead (Pb)    | 0.007     | 100       | 500                | <LOQ         |
| Cadmium (Cd) | 0.003     | 100       | 500                | <LOQ         | Mercury (Hg) | 0.016     | 100       | 500                | <LOQ         |



### Residual Solvents (GA-4)

Specimen Weight: 15.400 mg

**Passed**  
SOP13.039 (GCMS-HS)

Dilution Factor: 1.000

| Analyte | LOD (ppb) | LOQ (ppb) | Action Level (ppb) | Result (ppb) | Analyte | LOD (ppb) | LOQ (ppb) | Action Level (ppb) | Result (ppb) |
|---------|-----------|-----------|--------------------|--------------|---------|-----------|-----------|--------------------|--------------|
| Butane  | 0.4167    | 53.6      | 800000             | <LOQ         | Heptane | 0.0013    | 29.8      | 500000             | <LOQ         |
| Ethanol | 0.0021    | 59.5      | 5000000            | <LOQ         | Hexane  | 0.068     | 25        | 100000             | <LOQ         |



### Mycotoxins - (GA)

Specimen Weight: 610.000 mg

**Passed**  
SOP13.007 (LCMS)

Dilution Factor: 2.460

| Analyte      | LOD (ppb) | LOQ (ppb) | Action Level (ppb) | Result (ppb) | Analyte      | LOD (ppb) | LOQ (ppb) | Action Level (ppb) | Result (ppb) |
|--------------|-----------|-----------|--------------------|--------------|--------------|-----------|-----------|--------------------|--------------|
| Aflatoxin B1 | 3.0400E-1 | 1.9       | 20                 | <LOQ         | Aflatoxin G2 | 2.7100E-1 | 1.9       | 20                 | <LOQ         |
| Aflatoxin B2 | 7.7000E-2 | 1.9       | 20                 | <LOQ         | Ochratoxin A | 7.5400E-1 | 3.8       | 20                 | <LOQ         |
| Aflatoxin G1 | 3.0400E-1 | 1.9       | 20                 | <LOQ         |              |           |           |                    |              |

Aixa Sun

Lab Director/Principal Scientist  
D.H.Sc., M.Sc., B.Sc., MT (AAB)

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Serving Number: 30.00000

Initial Gross Weight: 200.800 g

Number of Units: 1

Net Weight per Package: 150000.000 mg

Sampling Method: MSP 7.3.1

**HHCP HHCP**

Specimen Weight: 209.900 mg

**Tested**  
SOP13.050 (LCMS)

Dilution Factor: 1000.000

| Analyte            | LOD (%)     | LOQ (%) | Result (mg/g) | (%) Analyte                    | LOD (%)     | LOQ (%) | Result (mg/g) | (%)    |
|--------------------|-------------|---------|---------------|--------------------------------|-------------|---------|---------------|--------|
| (9R)-HHC           | 3.6600E-6   | 0.075   | 20.6000       | 2.06 CBC                       | 2.760000E-5 | 0.075   | <LOQ          | <LOQ   |
| (9S)-HHC           | 6.6000E-6   | 0.075   | 3.9300        | 0.393 Delta-8 THC methyl ether | 2.480000E-4 | 0.075   | <LOQ          | <LOQ   |
| (±)-9β-hydroxy-HHC | 7.7800E-6   | 0.075   | <LOQ          | <LOQ Delta-9 THC               | 2.8000E-4   | 0.075   | 1.1000        | 0.11   |
| 1(R)-H4-CBD        | 7.330000E-7 | 0.15    | <LOQ          | <LOQ Delta-9 THC methyl ether  | 1.600000E-4 | 0.075   | <LOQ          | <LOQ   |
| 1(S)-H4-CBD        | 6.630000E-7 | 0.15    | <LOQ          | <LOQ H2-CBD                    | 1.440000E-7 | 0.075   | <LOQ          | <LOQ   |
| 9(R)-HHCP          | 3.0900E-5   | 0.075   | <LOQ          | <LOQ Total HHC                 |             | 0.075   | 24.7530       | 2.4753 |
| 9(S)-HHCP          | 2.5500E-5   | 0.075   | <LOQ          | <LOQ                           |             |         |               |        |

Aixa Sun Lab Director/Principal Scientist  
D.H.Sc., M.Sc., B.Sc., MT (AAB)

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Initial Gross Weight: 200.800 g

Number of Units: 1

Net Weight per Package: 150000.000 mg

Sampling Method: MSP 7.3.1



**Pesticides - (GA)**

Specimen Weight: 610.000 mg

**Passed**  
SOP13.007 (LCMS)

Dilution Factor: 2.460

| Analyte             | LOD (ppb) | LOQ (ppb) | Action Level (ppb) | Result (ppb) | Analyte           | LOD (ppb) | LOQ (ppb) | Action Level (ppb) | Result (ppb) |
|---------------------|-----------|-----------|--------------------|--------------|-------------------|-----------|-----------|--------------------|--------------|
| Abamectin           | 3.9900E-1 | 9.6       | 100                | <LOQ         | Fludioxonil       | 3.6000E-1 | 9.6       | 100                | <LOQ         |
| Acephate            | 1.4100E-1 | 9.6       | 100                | <LOQ         | Hexythiazox       | 1.1300E-1 | 9.6       | 100                | <LOQ         |
| Acequinocyl         | 2.1780E+0 | 9.6       | 100                | <LOQ         | Imazalil          | 2.5800E-1 | 9.6       | 100                | <LOQ         |
| Acetamiprid         | 1.4000E-1 | 9.6       | 100                | <LOQ         | Imidacloprid      | 4.0200E-1 | 9.6       | 100                | <LOQ         |
| Aldicarb            | 2.0300E-1 | 9.6       | 100                | <LOQ         | Kresoxim Methyl   | 1.8200E-1 | 9.6       | 100                | <LOQ         |
| Azoxystrobin        | 1.8800E-1 | 9.6       | 100                | <LOQ         | Malathion         | 2.2300E-1 | 9.6       | 100                | <LOQ         |
| Bifenazate          | 8.6000E-2 | 9.6       | 100                | <LOQ         | Metaxyl           | 2.7000E-1 | 9.6       | 100                | <LOQ         |
| Bifenthrin          | 1.0000E-1 | 9.6       | 100                | <LOQ         | Methiocarb        | 1.1800E-1 | 9.6       | 100                | <LOQ         |
| Boscalid            | 5.9500E-1 | 9.6       | 100                | <LOQ         | Methomyl          | 6.4000E-2 | 9.6       | 100                | <LOQ         |
| Carbaryl            | 1.2200E-1 | 9.6       | 100                | <LOQ         | Mevinphos         | 9.3000E-2 | 9.6       | 100                | <LOQ         |
| Carbofuran          | 8.6000E-2 | 9.6       | 100                | <LOQ         | Myclobutanil      | 5.7300E-1 | 9.6       | 100                | <LOQ         |
| Chlorantraniliprole | 8.4000E-2 | 9.6       | 100                | <LOQ         | Oxamyl            | 4.1000E-2 | 9.6       | 100                | <LOQ         |
| Chlordane           | 1.9000E+0 | 9.6       | 100                | <LOQ         | Paclobutrazol     | 1.8600E-1 | 9.6       | 100                | <LOQ         |
| Chlorpyrifos        | 1.0900E-1 | 9.6       | 100                | <LOQ         | Permethrin        | 6.2400E-1 | 9.6       | 100                | <LOQ         |
| Coumaphos           | 2.0600E-1 | 9.6       | 100                | <LOQ         | Phosmet           | 1.2700E-1 | 9.6       | 100                | <LOQ         |
| Cyfluthrin          | 9.8000E-1 | 9.6       | 100                | <LOQ         | Piperonylbutoxide | 1.4900E-1 | 9.6       | 100                | <LOQ         |
| Cypermethrin        | 9.8500E-1 | 9.6       | 100                | <LOQ         | Prallethrin       | 1.4760E+0 | 9.6       | 100                | <LOQ         |
| Daminozide          | 1.6550E+0 | 9.6       | 100                | <LOQ         | Propiconazole     | 2.9400E-1 | 9.6       | 100                | <LOQ         |
| Diazinon            | 2.1200E-1 | 9.6       | 100                | <LOQ         | Propoxur          | 1.0000E-1 | 9.6       | 100                | <LOQ         |
| Dichlorvos          | 1.1300E+0 | 9.6       | 100                | <LOQ         | Pyridaben         | 1.4000E-1 | 9.6       | 100                | <LOQ         |
| Dimethoate          | 6.3000E-2 | 9.6       | 100                | <LOQ         | Spinetoram        | 4.2400E-1 | 9.6       | 100                | <LOQ         |
| Dimethomorph        | 2.5810E+0 | 9.6       | 100                | <LOQ         | Spiromesifen      | 1.2000E-1 | 9.6       | 100                | <LOQ         |
| Ethoprophos         | 1.5100E-1 | 9.6       | 100                | <LOQ         | Spirotetramat     | 2.1100E-1 | 9.6       | 100                | <LOQ         |
| Etofenprox          | 1.7200E-1 | 9.6       | 100                | <LOQ         | Spiroxamine       | 5.3300E-1 | 9.6       | 100                | <LOQ         |
| Etoxazole           | 8.6600E-1 | 9.6       | 100                | <LOQ         | Tebuconazole      | 2.3000E-1 | 9.6       | 100                | <LOQ         |
| Fenhexamid          | 5.8800E-1 | 9.6       | 100                | <LOQ         | Thiacloprid       | 1.7000E-1 | 9.6       | 100                | <LOQ         |
| Fenoxycarb          | 2.7400E-1 | 9.6       | 100                | <LOQ         | Thiamethoxam      | 1.7900E-1 | 9.6       | 100                | <LOQ         |
| Fipronil            | 3.1700E-1 | 9.6       | 100                | <LOQ         | Trifloxystrobin   | 1.3400E-1 | 9.6       | 100                | <LOQ         |
| Flonicamid          | 4.6600E-1 | 9.6       | 100                | <LOQ         |                   |           |           |                    |              |

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