



## Certificate of Analysis

Compliance Test

<b>Client Information:</b> <b>RA Royal</b> 41 enterprise dr Unit 101 Bunnell, Florida 32110	<b>Manufacturing Facility:</b> RA Royal 41 enterprise dr Unit 101 Bunnell, Florida 32110 Production Date: 2025-07-27	<b>Batch Data:</b> Batch # 252807206 Batch Date: 2025-07-28 Extracted From: Hemp	<b>Order Details:</b> Test Reg State: Florida Food Permit #: 397102
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<b>Order #</b> RAR250729-100001 Order Date: 2025-07-29 Sample # AAGY498	<b>Sampling Date:</b> 2025-07-31 <b>Lab Batch Date:</b> 2025-07-31 <b>Completion Date:</b> 2025-08-07	<b>Initial Gross Weight:</b> 197.700 g	<b>Net Weight per Package:</b> 150000.000 mg <b>Sampling Method:</b> MSP 7.3.1	<b>Net Weight per Serving:</b> 5000 mg <b>Servings Per Package:</b> 30
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Product Image

**Potency Tested**

**Terpenes Tested**

**Heavy Metals Passed**

**Mycotoxins Passed**

**Pesticides Passed**

Residual Solvents  
**Passed**

Pathogenic  
**Passed**

Microbiology (qPCR)  
**Passed**

### Potency Summary

<b>Delta 9 THC</b>	<b>0.184%</b>	<b>Total Active CBD</b>	<b>0.120%</b>
per Serving	9.20 mg	per Serving	6.00 mg
per Package	276 mg	per Package	180 mg
<b>Total CBG</b>	<b>&lt;LOQ</b>	<b>Total CBN</b>	<b>&lt;LOQ</b>
per Serving	0.00 mg	per Serving	0.00 mg
per Package	0.00 mg	per Package	0.00 mg
<b>Total Cannabinoids</b>	<b>0.582%</b>	<b>Total Active THC</b>	<b>0.184%</b>
per Serving	28.3 mg	per Serving	9.20 mg
per Package	848 mg	per Package	276 mg

### Terpenes Summary

Analyte	Result (mg/g)	(%)
(R)-(+)-Limonene	0.065	0.007%
alpha-Bisabolol	0.049	0.005%
trans-Caryophyllene	0.029	0.003%

**Total Terpenes: 0.015%**

Detailed Terpenes Analysis is on the following page

\* Summary Results determined from two distinct Potency Tests - Potency 11 (LCUV) + Potency 25 (LCUV)

Aixa 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 Active THC = THCA-A \* 0.877 + Delta 9 THC, Total THCV = THCV + (THCVA \* 0.87), 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. ACS uses simple acceptance criteria. Passed - Analyte/microbe is not detected or is at the level below the action limit per FL rule 64ER20-39, 5K-4.036, 5K-4.034. Failed - Analyte/microbe is at the level that equal or above the action limit per FL rule 64ER20-39, 5K-4.036, 5K-4.034 The results apply to the sample as received.

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<b>Order #</b> RAR250729-100001 Order Date: 2025-07-29 Sample # AAGY498	<b>Sampling Date:</b> 2025-07-31 <b>Lab Batch Date:</b> 2025-07-31 <b>Completion Date:</b> 2025-08-07	<b>Initial Gross Weight:</b> 197.700 g	<b>Net Weight per Package:</b> 150000.000 mg <b>Sampling Method:</b> MSP 7.3.1	<b>Net Weight per Serving:</b> 5000 mg <b>Servings Per Package:</b> 30
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**Potency 11 (LCUV) + Potency 25 (LCUV)** **Tested** SOP13.001 (LCUV)  
Specimen Weight: 1513.700 mg

Pieces For Panel: 30

Analyte	Dilution (1:n)	LOD (mg/g)	LOQ (%)	Result (mg/g)	(%)	Per Serving (mg)	Per Package (mg)
Delta9-THCP	100.000	1.170000E-5	0.0012	2.33	0.233	11.7	350
Delta-9 THC	10.000	1.300000E-5	0.0015	1.84	0.184	9.20	276
CBD	10.000	5.400000E-5	0.0015	1.20	0.120	6.00	180
CBT	10.000	2.000000E-4	0.0015	0.244	0.0244	1.22	36.6
Delta8-THCP	10.000	3.750000E-4	0.0015	0.0320	0.00320	0.160	4.80
CBDV	10.000	6.500000E-5	0.0015	0.0300	0.00300	0.150	4.50
Delta-8 THC	10.000	2.600000E-5	0.0015	0.0300	0.00300	0.150	4.50
CBC	10.000	1.800000E-5	0.0015	0.0200	0.00200	0.100	3.00
CBG	10.000	2.480000E-4	0.0015	0.0200	0.00200	0.100	3.00
CBN	10.000	1.400000E-5	0.0015	0.0200	0.00200	0.100	3.00
THCV	10.000	7.000000E-6	0.0015	0.0200	0.00200	0.100	3.00
CBL	10.000	3.500000E-5	0.0015	0.00143	0.00143	0.00715	0.214
Delta-8 THCv	10.000	4.000000E-5	0.0015	0.00140	0.00140	0.00698	0.209
CBDA	10.000	1.000000E-5	0.0015	<LOQ	<LOQ	0.00	0.00
CBGA	10.000	8.000000E-5	0.0015	<LOQ	<LOQ	0.00	0.00
THCA-A	10.000	3.200000E-5	0.0015	<LOQ	<LOQ	0.00	0.00
CBCA	10.000	1.070000E-4	0.0015	<LOQ	<LOQ	0.00	0.00
CBDVA	10.000	1.400000E-5	0.0015	<LOQ	<LOQ	0.00	0.00
CBNA	10.000	9.500000E-5	0.0015	<LOQ	<LOQ	0.00	0.00
Delta-8 THC-O Acetate	10.000	2.700000E-5	0.003	<LOQ	<LOQ	0.00	0.00
Delta-9 THC-O Acetate	10.000	7.700000E-5	0.003	<LOQ	<LOQ	0.00	0.00
Exo-THC	10.000	2.300000E-4	0.0015	<LOQ	<LOQ	0.00	0.00
THCB	10.000	1.800000E-4	0.00195	<LOQ	<LOQ	0.00	0.00
THCH	10.000	3.500000E-4	0.00195	<LOQ	<LOQ	0.00	0.00
THCVA	10.000	4.700000E-5	0.0015	<LOQ	<LOQ	0.00	0.00
Total Active THC	10.000			1.84	0.184	9.20	276
Total Active CBD	10.000			1.20	0.120	6.00	180

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Definitions are found on page 1

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<b>Order #</b> RAR250729-100001 Order Date: 2025-07-29 Sample # AAGY498	<b>Sampling Date:</b> 2025-07-31 <b>Lab Batch Date:</b> 2025-07-31 <b>Completion Date:</b> 2025-08-07	<b>Initial Gross Weight:</b> 197.700 g	<b>Net Weight per Package:</b> 150000.000 mg <b>Sampling Method:</b> MSP 7.3.1	<b>Net Weight per Serving:</b> 5000 mg <b>Servings Per Package:</b> 30
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**Terpenes** **Tested**  
Specimen Weight: 1513.700 mg SOP13.045 (GC-MS/GC (Liquid Injection))

Dilution Factor: 20.000

Analyte	LOQ (%)	Result (mg/g)	(%)	Analyte	LOQ (%)	Result (mg/g)	(%)
(R)-(+)-Limonene	0.002	0.0650	0.007	Fenchone	0.002	<LOQ	<LOQ
alpha-Bisabolol	0.002	0.0490	0.005	Fenchyl Alcohol	0.002	<LOQ	<LOQ
trans-Caryophyllene	0.002	0.0290	0.003	Gamma-Terpinene	0.002	<LOQ	<LOQ
(+)-Cedrol	0.002	<LOQ	<LOQ	Geraniol	0.002	<LOQ	<LOQ
3-Carene	0.002	<LOQ	<LOQ	Geranyl acetate	0.002	<LOQ	<LOQ
alpha-Cedrene	0.002	<LOQ	<LOQ	Guaiol	0.002	<LOQ	<LOQ
alpha-Humulene	0.002	<LOQ	<LOQ	Hexahydrothymol	0.002	<LOQ	<LOQ
alpha-Phellandrene	0.002	<LOQ	<LOQ	Isoborneol	0.002	<LOQ	<LOQ
alpha-Pinene	0.002	<LOQ	<LOQ	Isopulegol	0.002	<LOQ	<LOQ
alpha-Terpinene	0.002	<LOQ	<LOQ	Linalool	0.002	<LOQ	<LOQ
beta-Myrcene	0.002	<LOQ	<LOQ	Nerol	0.002	<LOQ	<LOQ
beta-Pinene	0.002	<LOQ	<LOQ	Ocimene	0.00033	<LOQ	<LOQ
Borneol	0.004	<LOQ	<LOQ	Pulegone	0.002	<LOQ	<LOQ
Camphene	0.002	<LOQ	<LOQ	Sabinene	0.002	<LOQ	<LOQ
Camphors	0.006	<LOQ	<LOQ	Sabinene Hydrate	0.002	<LOQ	<LOQ
Caryophyllene oxide	0.002	<LOQ	<LOQ	Terpinolene	0.002	<LOQ	<LOQ
cis-Nerolidol	0.002	<LOQ	<LOQ	Total Terpeneol	0.00126	<LOQ	<LOQ
Eucalyptol	0.002	<LOQ	<LOQ	trans-Nerolidol	0.002	<LOQ	<LOQ
Farnesene	0.002	<LOQ	<LOQ	Valencene	0.002	<LOQ	<LOQ

**PCR Total Yeast and Mold** **Passed**  
Specimen Weight: 521.400 mg SOP13.017 (qPCR)

Dilution Factor: 8.000

Analyte	LOQ (cfu/g)	Action Level (cfu/g)	Result (cfu/g)
Total Yeast/Mold	1000	100000	<LOQ

**Pathogenic SAE (qPCR) FL** **Passed**  
Specimen Weight: 1038.000 mg SOP13.029 (qPCR)

Dilution Factor: 1.000

Analyte	Action Level (cfu/g)	Result (cfu/g)	Analyte	Action Level (cfu/g)	Result (cfu/g)
Aspergillus (Flavus, Fumigatus, Niger, Terreus)	1	Absence in 1g	Shiga toxin-producing E. coli (STEC)	1	Absence in 1g
Salmonella	1	Absence in 1g			

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<b>H Heavy Metals Florida</b> <span style="float: right;"><b>Passed</b></span>									
Specimen Weight: 253.300 mg <span style="float: right;">SOP13.048 (ICP-MS)</span>									
Dilution Factor: 197.394									
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	1500	<LOQ	Lead (Pb)	0.007	100	500	<LOQ
Cadmium (Cd)	0.003	100	500	<LOQ	Mercury (Hg)	0.016	100	3000	<LOQ

<b>Mycotoxins</b> <span style="float: right;"><b>Passed</b></span>									
Specimen Weight: 608.700 mg <span style="float: right;">SOP13.007 (LCMS/GCMS)</span>									
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	0.304	6	20	<LOQ	Aflatoxin G2	0.271	6	20	<LOQ
Aflatoxin B2	0.077	6	20	<LOQ	Ochratoxin A	0.754	3.8	20	<LOQ
Aflatoxin G1	0.304	6	20	<LOQ					

<b>Residual Solvents - FL (CBD)</b> <span style="float: right;"><b>Passed</b></span>									
Specimen Weight: 18.600 mg <span style="float: right;">SOP13.039 (GCMS-HS)</span>									
Dilution Factor: 1.000									
Analyte	LOD (ppm)	LOQ (ppm)	Action Level (ppm)	Result (ppm)	Analyte	LOD (ppm)	LOQ (ppm)	Action Level (ppm)	Result (ppm)
1,1-Dichloroethene	0.009	1.6	8	<LOQ	Heptane	0.001	13.9	5000	<LOQ
1,2-Dichloroethane	0.000	0.4	2	<LOQ	Hexane	0.068	11.7	250	<LOQ
Acetone	0.015	20.8	750	<LOQ	Isopropyl alcohol	0.005	13.9	500	<LOQ
Acetonitrile	0.060	11.7	60	<LOQ	Methanol	0.001	6.9	250	<LOQ
Benzene	0.000	0.2	1	<LOQ	Methylene chloride	0.003	24.3	125	<LOQ
Butanes	0.417	25	5000	<LOQ	Pentane	0.037	20.8	750	<LOQ
Chloroform	0.000	0.4	2	<LOQ	Propane	0.031	58.3	5000	<LOQ
Ethanol	0.002	27.8	5000	<LOQ	Toluene	0.001	29.2	150	<LOQ
Ethyl Acetate	0.001	11.1	400	<LOQ	Total Xylenes	0.000	29.2	150	<LOQ
Ethyl Ether	0.005	13.9	500	<LOQ	Trichloroethylene	0.001	4.9	25	<LOQ
Ethylene Oxide	0.004	1	5	<LOQ					

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**Pesticides Florida**  
Specimen Weight: 608.700 mg

**Passed**  
SOP13.007 (LCMS/GCMS)

Dilution Factor: 2.460

Analyte	LOD (ppb)	LOQ (ppb)	Action Level (ppb)	Result	Analyte	LOD (ppb)	LOQ (ppb)	Action Level (ppb)	Result
Abamectin	0.288	28.23	300	<LOQ	Fludioxonil	1.740	48	3000	<LOQ
Acephate	0.023	30	3000	<LOQ	Hexythiazox	0.049	30	2000	<LOQ
Acequinocyl	9.564	48	2000	<LOQ	Imazalil	0.248	30	100	<LOQ
Acetamiprid	0.052	30	3000	<LOQ	Imidacloprid	0.094	30	3000	<LOQ
Aldicarb	0.026	30	100	<LOQ	Kresoxim Methyl	0.042	30	1000	<LOQ
Azoxystrobin	0.081	10	3000	<LOQ	Malathion	0.082	30	2000	<LOQ
Bifenazate	1.415	30	3000	<LOQ	Metalaxyl	0.081	10	3000	<LOQ
Bifenthrin	0.043	30	500	<LOQ	Methiocarb	0.032	30	100	<LOQ
Boscalid	0.055	10	3000	<LOQ	Methomyl	0.022	30	100	<LOQ
Captan	6.120	30	3000	<LOQ	methyl-Parathion	1.710	10	100	<LOQ
Carbaryl	0.022	10	500	<LOQ	Mevinphos	2.150	10	100	<LOQ
Carbofuran	0.034	10	100	<LOQ	Myclobutanil	0.573	10	0	<LOQ
Chlorantraniliprole	0.033	10	3000	<LOQ	Naled	0.095	30	500	<LOQ
Chlordane	10.000	10	100	<LOQ	Oxamyl	0.025	30	500	<LOQ
Chlorfenapyr	0.034	30	100	<LOQ	Pacllobutrazol	0.065	30	100	<LOQ
Chlormequat Chloride	0.108	10	3000	<LOQ	Pentachloronitrobenzene	1.320	10	200	<LOQ
Chlorpyrifos	0.035	30	100	<LOQ	Permethrin	0.343	30	1000	<LOQ
Clofentezine	0.119	30	500	<LOQ	Phosmet	0.082	30	200	<LOQ
Coumaphos	3.770	48	100	<LOQ	Piperonylbutoxide	0.029	30	3000	<LOQ
Cyfluthrin	3.110	30	1000	<LOQ	Prallethrin	0.798	30	400	<LOQ
Cypermethrin	1.449	30	1000	<LOQ	Propiconazole	0.070	30	1000	<LOQ
Daminozide	0.885	30	100	<LOQ	Propoxur	0.046	30	100	<LOQ
Diazinon	0.044	30	200	<LOQ	Pyrethrins	23.593	30	1000	<LOQ
Dichlorvos	2.182	30	100	<LOQ	Pyridaben	0.032	30	3000	<LOQ
Dimethoate	0.021	30	100	<LOQ	Spinetoram	0.080	10	3000	<LOQ
Dimethomorph	5.830	48	3000	<LOQ	Spinosad	0.088	30	3000	<LOQ
Ethoprophos	0.360	30	100	<LOQ	Spiromesifen	0.261	30	3000	<LOQ
Etofenprox	0.116	30	100	<LOQ	Spirotetramat	0.089	30	3000	<LOQ
Etoxazole	0.095	30	1500	<LOQ	Spiroxamine	0.131	30	100	<LOQ
Fenhexamid	0.510	10	3000	<LOQ	Tebuconazole	0.067	30	1000	<LOQ
Fenoxycarb	0.107	30	100	<LOQ	Thiacloprid	0.064	30	100	<LOQ
Fenpyroximate	0.138	30	2000	<LOQ	Thiamethoxam	0.050	30	1000	<LOQ
Fipronil	0.107	30	100	<LOQ	Trifloxystrobin	0.037	30	3000	<LOQ
Fonicamid	0.517	30	2000	<LOQ					

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