



Certificate of Analysis

Compliance Test

Client Information: RA Royal 41 enterprise dr Unit 101 Bunnell, Florida 32110	Manufacturing Facility: RA Royal 41 enterprise dr Unit 101 Bunnell, Florida 32110 Production Date: 2025-07-14	Batch Data: Batch # 251715028 Batch Date: 2025-07-15 Extracted From: Hemp	Order Details: Test Reg State: Florida Food Permit #: 397102
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Order # RAR250729-100001 Order Date: 2025-07-29 Sample # AAGY495	Sampling Date: 2025-07-31 Lab Batch Date: 2025-07-31 Completion Date: 2025-08-07	Initial Gross Weight: 191.100 g Net Weight: 150.000 g	Net Weight per Package: 150000.000 mg Sampling Method: MSP 7.3.1	Net Weight per Serving: 5000 mg Servings Per Package: 30
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Product Image

Potency Tested	HHCP Tested	Terpenes Tested	Heavy Metals Passed	Mycotoxins Passed
Pesticides Passed	Residual Solvents Passed	Pathogenic Passed	Microbiology (qPCR) Passed	

Potency Summary

Total HHC per Serving: 149 mg per Package: 4480 mg	2.99%	Delta 9 THC per Serving: 0.00 mg per Package: 0.00 mg	<LOQ
Total Active CBD per Serving: 0.00 mg per Package: 0.00 mg	<LOQ	Total CBG per Serving: 0.00 mg per Package: 0.00 mg	<LOQ
Total CBN per Serving: 1.65 mg per Package: 49.5 mg	0.0330%	Total Cannabinoids per Serving: 367 mg per Package: 11000 mg	7.36%
Total Active THC per Serving: 0.00 mg per Package: 0.00 mg	<LOQ		

Terpenes Summary

Analyte	Result (mg/g)	(%)
(R)-(+)-Limonene	0.094	0.009%
trans-Caryophyllene	0.052	0.005%
alpha-Bisabolol	0.046	0.005%
Guaiol	0.027	0.003%
Total Terpenes: 0.022%		

Detailed Terpenes Analysis is on the following page

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

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 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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Potency 11 (LCUV) + Potency 25 (LCUV) **Tested** SOP13.001 (LCUV)
Specimen Weight: 1539.300 mg

Pieces For Panel: 30

Analyte	Dilution (1:n)	LOD (mg/g)	LOQ (%)	Result (mg/g)	(%)	Per Serving (mg)	Per Package (mg)
Delta-8 THC	100.000	2.60000E-5	0.0015	39.5	3.95	197	5920
Delta9-THCP	100.000	1.17000E-5	0.0012	2.94	0.294	14.7	441
Delta-8 THCV	10.000	4.00000E-5	0.0015	0.542	0.0542	2.71	81.3
CBN	100.000	1.40000E-5	0.0015	0.330	0.0330	1.65	49.5
CBT	10.000	2.00000E-4	0.0015	0.187	0.0187	0.933	28.0
CBD	100.000	5.40000E-5	0.0015	0.0800	0.00800	0.400	12.0
THCV	100.000	7.00000E-6	0.0015	0.0800	0.00800	0.400	12.0
Delta8-THCP	10.000	3.75000E-4	0.0015	0.0537	0.00540	0.269	8.06
CBG	100.000	2.48000E-4	0.0015	0.0200	0.00200	0.100	3.00
CBGA	100.000	8.00000E-5	0.0015	0.0200	0.00200	0.100	3.00
CBC	100.000	2.76000E-5	0.075	<LOQ	<LOQ	0.00	0.00
CBDA	100.000	1.00000E-5	0.0015	<LOQ	<LOQ	0.00	0.00
CBDV	100.000	6.50000E-5	0.0015	<LOQ	<LOQ	0.00	0.00
Delta-9 THC	100.000	1.30000E-5	0.0015	<LOQ	<LOQ	0.00	0.00
THCA-A	100.000	3.20000E-5	0.0015	<LOQ	<LOQ	0.00	0.00
CBCA	10.000	1.07000E-4	0.0015	<LOQ	<LOQ	0.00	0.00
CBDVA	10.000	1.40000E-5	0.0015	<LOQ	<LOQ	0.00	0.00
CBL	10.000	3.50000E-5	0.0015	<LOQ	<LOQ	0.00	0.00
CBNA	10.000	9.50000E-5	0.0015	<LOQ	<LOQ	0.00	0.00
Delta-8 THC-O Acetate	10.000	2.70000E-5	0.003	<LOQ	<LOQ	0.00	0.00
Delta-9 THC-O Acetate	10.000	7.70000E-5	0.003	<LOQ	<LOQ	0.00	0.00
Exo-THC	10.000	2.30000E-4	0.0015	<LOQ	<LOQ	0.00	0.00
THCB	10.000	1.80000E-4	0.00195	<LOQ	<LOQ	0.00	0.00
THCH	10.000	3.50000E-4	0.00195	<LOQ	<LOQ	0.00	0.00
THCVA	10.000	4.70000E-5	0.0015	<LOQ	<LOQ	0.00	0.00
Total Active THC	100.000			<LOQ	<LOQ	0.00	0.00
Total Active CBD	100.000			<LOQ	<LOQ	0.00	0.00

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

Definitions are found on page 1

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Terpenes **Tested**
Specimen Weight: 1539.300 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	0.0940	0.009	Farnesene	0.002	<LOQ	<LOQ
alpha-Bisabolol	0.002	0.0460	0.005	Fenchone	0.002	<LOQ	<LOQ
trans-Caryophyllene	0.002	0.0520	0.005	Fenchyl Alcohol	0.002	<LOQ	<LOQ
Guaiol	0.002	0.0270	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	Hexahydrothymol	0.002	<LOQ	<LOQ
alpha-Humulene	0.002	<LOQ	<LOQ	Isoborneol	0.002	<LOQ	<LOQ
alpha-Phellandrene	0.002	<LOQ	<LOQ	Isopulegol	0.002	<LOQ	<LOQ
alpha-Pinene	0.002	<LOQ	<LOQ	Linalool	0.002	<LOQ	<LOQ
alpha-Terpinene	0.002	<LOQ	<LOQ	Nerol	0.002	<LOQ	<LOQ
beta-Myrcene	0.002	<LOQ	<LOQ	Ocimene	0.00033	<LOQ	<LOQ
beta-Pinene	0.002	<LOQ	<LOQ	Pulegone	0.002	<LOQ	<LOQ
Borneol	0.004	<LOQ	<LOQ	Sabinene	0.002	<LOQ	<LOQ
Camphene	0.002	<LOQ	<LOQ	Sabinene Hydrate	0.002	<LOQ	<LOQ
Camphors	0.006	<LOQ	<LOQ	Terpinolene	0.002	<LOQ	<LOQ
Caryophyllene oxide	0.002	<LOQ	<LOQ	Total Terpeneol	0.00126	<LOQ	<LOQ
cis-Nerolidol	0.002	<LOQ	<LOQ	trans-Nerolidol	0.002	<LOQ	<LOQ
Eucalyptol	0.002	<LOQ	<LOQ	Valencene	0.002	<LOQ	<LOQ

PCR Total Yeast and Mold **Passed**
Specimen Weight: 496.100 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: 1002.800 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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H Heavy Metals Florida **Passed**
Specimen Weight: 252.100 mg SOP13.048 (ICP-MS)

Dilution Factor: 198.334

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

Mycotoxins **Passed**
Specimen Weight: 618.900 mg SOP13.007 (LCMS/GCMS)

Dilution Factor: 2.420

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					

HHCP **Tested**
Specimen Weight: 1539.300 mg SOP13.050 (LCMS)

Dilution Factor: 1000.000

Analyte	LOD (%)	LOQ (%)	Result (mg/g)	(%) Analyte	LOD (%)	LOQ (%)	Result (mg/g)	(%)
(9R)-HHC	0.000	0.075	21.9	2.19 9(S)-HHCP	0.000	0.075	<LOQ	<LOQ
(9S)-HHC	0.000	0.075	7.92	0.792 CBC	0.000	0.075	<LOQ	<LOQ
(±)-9β-hydroxy-HHC	0.000	0.075	<LOQ	<LOQ Delta-8 THC methyl ether	0.000	0.075	<LOQ	<LOQ
1(R)-H4-CBD	0.000	0.15	<LOQ	<LOQ Delta-9 THC methyl ether	0.000	0.075	0.751	0.0751
1(S)-H4-CBD	0.000	0.15	<LOQ	<LOQ H2-CBD	0.000	0.075	<LOQ	<LOQ
9(R)-HHCP	0.000	0.075	<LOQ	<LOQ Total HHC		0.075	29.9	2.9854

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Batch Data:

Batch # 251715028
Batch Date: 2025-07-15
Extracted From: Hemp

Order Details:

Test Reg State: Florida
Food Permit #: 397102

Order #

RAR250729-100001
Order Date: 2025-07-29
Sample # AAGY495

Sampling Date: 2025-07-31

Lab Batch Date: 2025-07-31
Completion Date: 2025-08-07

Initial Gross Weight: 191.100

g
Net Weight: 150.000 g

Net Weight per Package:

150000.000 mg
Sampling Method:
MSP 7.3.1

Net Weight per Serving:

5000 mg
Servings Per Package:
30

Residual Solvents - FL (CBD)

Specimen Weight: 15.100 mg

Passed

SOP13.039 (GCMS-HS)

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: 618.900 mg

Passed
SOP13.007 (LCMS/GCMS)

Dilution Factor: 2.420

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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Extracted From: Hemp

Test Reg State: Georgia
Food Permit #: 397102

Production Facility: RA Royal
Production Date: 2025-07-14

Order # RAR250822-010002
Order Date: 2025-08-22
Sample # AAHA589

Sampling Date: 2025-08-23
Lab Batch Date: 2025-08-23
Completion Date: 2025-08-27

Initial Gross Weight: 191.100 g



Microbiology
Passed



Filtration and Foreign
Passed

Product Image

Microbiology AC TYM BTGN plating - (GA) **Passed**
SOP13.003
(Petrifilm)

Specimen Weight: 1004.300 mg

Dilution Factor: 1.000

Analyte	LOQ (cfu/g)	Action Level (cfu/g)	Result (cfu/g)	Analyte	LOQ (cfu/g)	Action Level (cfu/g)	Result (cfu/g)
Bile tolerant gram-negative bacteria	100	1000	<100	Total Yeast/Mold	1000	10000	<1000
Total Aerobic Count	1000	100000	<1000				

Filtration and Foreign Material - (GA) **Passed**
SOP13.020
(Electronic Balance)

Specimen Weight: N/A Dilution Factor: 1.000

Analyte	Action Level (%)	Result (%)	Analyte	Action Level (%)	Result (%)
Covered Area	10	0.00	Weight %	1	0.00
Feces	0.5	0.00			

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 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 9 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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