



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 # 251715023
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 # AAGY493

Sampling Date: 2025-07-31

Lab Batch Date: 2025-07-31
Completion Date: 2025-08-06

Initial Gross Weight: 190.900 g

Net Weight per Package:
150000.000 mg
Sampling Method:
MSP 7.3.1

Net Weight per Serving:
5000 mg
Servings Per Package:
30



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	2.99%	Delta 9 THC	<LOQ
per Serving	149 mg	per Serving	0.00 mg
per Package	4480 mg	per Package	0.00 mg
Total Active CBD	<LOQ	Total CBG	<LOQ
per Serving	0.00 mg	per Serving	0.00 mg
per Package	0.00 mg	per Package	0.00 mg
Total CBN	0.0330%	Total Cannabinoids	7.27%
per Serving	1.65 mg	per Serving	363 mg
per Package	49.5 mg	per Package	10900 mg
Total Active THC	<LOQ		
per Serving	0.00 mg		
per Package	0.00 mg		



Terpenes Summary

Analyte	Result (mg/g)	(%)
(R)-(+)-Limonene	0.088	0.009%
trans-Caryophyllene	0.049	0.005%
alpha-Bisabolol	0.046	0.005%

Total Terpenes: 0.019%

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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5000 mg

Servings Per Package:
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Potency 11 (LCUV) + Potency 25 (LCUV)

Specimen Weight: 1526.300 mg

Tested

SOP13.001 (LCUV)

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	2.600000E-5	0.0015	38.7	3.87	193	5800
Delta-9-THCP	100.000	1.170000E-5	0.0012	2.88	0.288	14.4	432
Delta-8 THCV	10.000	4.000000E-5	0.0015	0.538	0.0538	2.69	80.7
CBN	100.000	1.400000E-5	0.0015	0.330	0.0330	1.65	49.5
CBT	10.000	2.000000E-4	0.0015	0.182	0.0182	0.911	27.3
THCV	100.000	7.000000E-6	0.0015	0.0800	0.00800	0.400	12.0
CBD	100.000	5.400000E-5	0.0015	0.0700	0.00700	0.350	10.5
Delta-8-THCP	10.000	3.750000E-4	0.0015	0.0545	0.00540	0.273	8.18
CBGA	100.000	8.000000E-5	0.0015	0.0200	0.00200	0.100	3.00
CBG	100.000	2.480000E-4	0.0015	0.00100	0.00100	0.00500	0.150
CBC	100.000	2.760000E-5	0.0015	<LOQ	<LOQ	0.00	0.00
CBDa	100.000	1.000000E-5	0.0015	<LOQ	<LOQ	0.00	0.00
CBDV	100.000	6.500000E-5	0.0015	<LOQ	<LOQ	0.00	0.00
Delta-9 THC	100.000	1.300000E-5	0.0015	<LOQ	<LOQ	0.00	0.00
THCA-A	100.000	3.200000E-5	0.0015	<LOQ	<LOQ	0.00	0.00
CBGA	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
CBL	10.000	3.500000E-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	100.000			<LOQ	<LOQ	0.00	0.00
Total Active CBD	100.000			<LOQ	<LOQ	0.00	0.00

Aixia Sun

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



Definitions are found on page 1

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Lab Batch Date: 2025-07-31
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Initial Gross Weight: 190.900 g

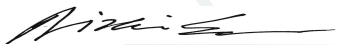
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150000.000 mg
Sampling Method:
MSP 7.3.1

Net Weight per Serving:
5000 mg
Servings Per Package:
30

Terpenes				Tested			
Specimen Weight: 1526.300 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	0.0880	0.009	Fenchone	0.002	<LOQ	
alpha-Bisabolol	0.002	0.0460	0.005	Fenchyl Alcohol	0.002	<LOQ	
trans-Caryophyllene	0.002	0.0490	0.005	Gamma-Terpinene	0.002	<LOQ	
(+)-Cedrol	0.002	<LOQ		Geraniol	0.002	<LOQ	
3-Carene	0.002	<LOQ		Geranyl acetate	0.002	<LOQ	
alpha-Cedrene	0.002	<LOQ		Guaiol	0.002	<LOQ	
alpha-Humulene	0.002	<LOQ		Hexahydrothymol	0.002	<LOQ	
alpha-Phellandrene	0.002	<LOQ		Isoborneol	0.002	<LOQ	
alpha-Pinene	0.002	<LOQ		Isopulegol	0.002	<LOQ	
alpha-Terpinene	0.002	<LOQ		Linalool	0.002	<LOQ	
beta-Myrcene	0.002	<LOQ		Nerol	0.002	<LOQ	
beta-Pinene	0.002	<LOQ		Ocimene	0.00033	<LOQ	
Borneol	0.004	<LOQ		Pulegone	0.002	<LOQ	
Camphene	0.002	<LOQ		Sabinene	0.002	<LOQ	
Camphors	0.006	<LOQ		Sabinene Hydrate	0.002	<LOQ	
Caryophyllene oxide	0.002	<LOQ		Terpinolene	0.002	<LOQ	
cis-Nerolidol	0.002	<LOQ		Total Terpeneol	0.00126	<LOQ	
Eucalyptol	0.002	<LOQ		trans-Nerolidol	0.002	<LOQ	
Farnesene	0.002	<LOQ		Valencene	0.002	<LOQ	

PCR Total Yeast and Mold		Passed	
Specimen Weight: 487.800 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 Specimen Weight: 1015.400 mg				Passed 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				


Aixia Sun Lab Director/Principal Scientist
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150000.000 mg
Sampling Method:
MSP 7.3.1

Net Weight per Serving:
5000 mg
Servings Per Package:
30



Heavy Metals Florida

Specimen Weight: 248.800 mg

Passed

SOP13.048 (ICP-MS)

Dilution Factor: 200.965

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

Specimen Weight: 590.500 mg

Passed

SOP13.007 (LCMS/GCMS)

Dilution Factor: 2.540

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

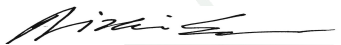
Specimen Weight: 1526.300 mg

Tested

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	21.8	2.18 9(S)-HHCP	0.000	0.075	<LOQ	<LOQ
(9S)-HHC	0.000	0.075	8.06	0.806 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	0.765	0.0765
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	2.98924


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Residual Solvents - FL (CBD)

Specimen Weight: 17.000 mg

Dilution Factor: 1.000

Passed
SOP13.039 (GCMS-HS)

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: 590.500 mg

Passed

SOP13.007 (LCMS/GCMS)

Dilution Factor: 2.540

Analyte	LOD (ppb)	LOQ (ppb)	Action Level (ppb)	Result (ppb)	Analyte	LOD (ppb)	LOQ (ppb)	Action Level (ppb)	Result (ppb)
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	Paclobutrazol	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
Flonicamid	0.517	30	2000	<LOQ					

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

Definitions are found on page 1

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Certificate of Analysis

Compliance Test

Client Information:

RA Royal
41 enterprise dr
Unit 101

Bunnell, Florida 32110

Order # RAR250822-010004

Order Date: 2025-08-22

Sample # AAHA591

Batch # 251715023
Batch Date: 2025-07-15
Extracted From: Hemp

Test Reg State: Georgia
Food Permit #: 397102

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

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

Initial Gross Weight: 190.900 g



Product Image



Microbiology
Passed



Filtration
Passed

Microbiology AC TYM BTGN plating - (GA)

Passed
SOP13.003
(Petrifilm)

Specimen Weight: 997.900 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)

Specimen Weight: N/A Dilution Factor: 1.000

Passed
SOP13.020
(Electronic Balance)

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 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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