



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: 2025-07-27

Batch Data:

Batch # 252807212
Batch Date: 2025-07-28
Extracted From: Hemp

Order Details:

Test Reg State: Florida
Food Permit #: 397102

Order #

RAR250729-100001
Order Date: 2025-07-29
Sample # AAGY501

Sampling Date: 2025-07-31

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

Initial Gross Weight: 195.500

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

Statement of Amendment: Updated Potency; Primary



Product Image



**Potency
Tested**



**Terpenes
Tested**



**Heavy Metals
Passed**



**Mycotoxins
Passed**



**Pesticides
Passed**



**Residual Solvents
Passed**



**Pathogenic
Passed**



**Microbiology (qPCR)
Passed**



Potency Summary

Delta 9 THC	0.168%	Total Active CBD	0.108%
per Serving	8.40 mg	per Serving	5.40 mg
per Package	252 mg	per Package	162 mg
Total CBG	<LOQ	Total CBN	<LOQ
per Serving	0.00 mg	per Serving	0.00 mg
per Package	0.00 mg	per Package	0.00 mg
Total Cannabinoids	0.528%	Total Active THC	0.168%
per Serving	25.6 mg	per Serving	8.40 mg
per Package	769 mg	per Package	252 mg



Terpenes Summary

Analyte	Result (mg/g)	(%)
Linalool	0.098	0.01%
(R)-(+)-Limonene	0.051	0.005%
alpha-Bisabolol	0.046	0.005%

Total Terpenes: 0.020%

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 = Delta 8-THCP + Delta 9-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. Revised report- see statement of amendment above.

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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



Potency 11 (LCUV) + Potency 25 (LCUV)

Specimen Weight: 1531.800 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)
Delta9-THCP	100.000	1.170000E-5	0.0012	2.12	0.212	10.6	318
Delta-9 THC	10.000	1.300000E-5	0.0015	1.68	0.168	8.40	252
CBD	10.000	5.400000E-5	0.0015	1.08	0.108	5.40	162
CBT	10.000	2.000000E-4	0.0015	0.221	0.0221	1.10	33.1
CBDV	10.000	6.500000E-5	0.0015	0.0300	0.00300	0.150	4.50
Delta8-THCP	10.000	3.750000E-4	0.0015	0.0283	0.00280	0.142	4.25
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
Delta-8 THC	10.000	2.600000E-5	0.0015	0.0200	0.00200	0.100	3.00
Delta-8 THCv	10.000	4.000000E-5	0.0015	0.00135	0.00135	0.00676	0.203
CBL	10.000	3.500000E-5	0.0015	0.00130	0.00130	0.00649	0.195
THCV	10.000	7.000000E-6	0.0015	0.00100	0.00100	0.00500	0.150
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			1.68	0.168	8.40	252
Total Active CBD	10.000			1.08	0.108	5.40	162

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



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Extracted From: Hemp

Order Details:

Test Reg State: Florida
Food Permit #: 397102

Order #

RAR250729-100001
Order Date: 2025-07-29
Sample # AAGY501

Sampling Date: 2025-07-31

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

Initial Gross Weight: 195.500

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

Terpenes				Tested			
Specimen Weight: 1531.800 mg				SOP13.045 (GC-MS/GC (Liquid Injection))			
Dilution Factor: 20.000							
Analyte	LOQ (%)	Result (mg/g)	(%)	Analyte	LOQ (%)	Result (mg/g)	(%)
Linalool	0.002	0.0980	0.010	Fenchone	0.002	<LOQ	
(R)-(+)-Limonene	0.002	0.0510	0.005	Fenchyl Alcohol	0.002	<LOQ	
alpha-Bisabolol	0.002	0.0460	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		Nerol	0.002	<LOQ	
beta-Myrcene	0.002	<LOQ		Ocimene	0.00033	<LOQ	
beta-Pinene	0.002	<LOQ		Pulegone	0.002	<LOQ	
Borneol	0.004	<LOQ		Sabinene	0.002	<LOQ	
Camphene	0.002	<LOQ		Sabinene Hydrate	0.002	<LOQ	
Camphors	0.006	<LOQ		Terpinolene	0.002	<LOQ	
Caryophyllene oxide	0.002	<LOQ		Total Terpeneol	0.00126	<LOQ	
cis-Nerolidol	0.002	<LOQ		trans-Caryophyllene	0.002	<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: 502.200 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: 1048.300 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				

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



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Bunnell, Florida 32110
Production Date: 2025-07-27

Batch Data:

Batch # 252807212
Batch Date: 2025-07-28
Extracted From: Hemp

Order Details:

Test Reg State: Florida
Food Permit #: 397102

Order #

RAR250729-100001
Order Date: 2025-07-29
Sample # AAGY501

Sampling Date: 2025-07-31

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

Initial Gross Weight: 195.500

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



Heavy Metals Florida

Specimen Weight: 251.000 mg

Passed

SOP13.048 (ICP-MS)

Dilution Factor: 199.203

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: 588.200 mg

Passed

SOP13.007 (LCMS/GCMS)

Dilution Factor: 2.550

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					



Residual Solvents - FL (CBD)

Specimen Weight: 15.000 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	33.4	Toluene	0.001	29.2	150	<LOQ
Ethyl Acetate	0.001	11.1	400	14.7	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					

Aixa Sun

Lab Director/Principal Scientist
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Extracted From: Hemp

Order Details:

Test Reg State: Florida
Food Permit #: 397102

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RAR250729-100001
Order Date: 2025-07-29
Sample # AAGY501

Sampling Date: 2025-07-31

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

Initial Gross Weight: 195.500

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



Pesticides Florida

Specimen Weight: 588.200 mg

Passed

SOP13.007 (LCMS/GCMS)

Dilution Factor: 2.550

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	Metaxalyl	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

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Bunnell, Florida 32110
Production Date: 2025-07-27

Batch Data:

Batch # 252807211
Batch Date: 2025-07-28
Extracted From: Hemp

Order Details:

Test Reg State: Florida
Food Permit #: 397102

Order #

RAR250729-100001
Order Date: 2025-07-29
Sample # AAGY497

Sampling Date: 2025-07-31

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

Initial Gross Weight: 190.700 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**



**Residual Solvents
Passed**



**Terpenes
Tested**



**Pathogenic
Passed**



**Heavy Metals
Passed**



**Microbiology (qPCR)
Passed**



**Mycotoxins
Passed**



**Pesticides
Passed**

Potency Summary

Delta 9 THC	0.205%	Total Active CBD	0.133%
per Serving	10.3 mg	per Serving	6.65 mg
per Package	308 mg	per Package	200 mg
Total CBG	<LOQ	Total CBN	<LOQ
per Serving	0.00 mg	per Serving	0.00 mg
per Package	0.00 mg	per Package	0.00 mg
Total Cannabinoids	0.647%	Total Active THC	0.205%
per Serving	31.5 mg	per Serving	10.3 mg
per Package	945 mg	per Package	308 mg



Terpenes Summary

Analyte	Result (mg/g)	(%)
alpha-Bisabolol	0.051	0.005%

Total Terpenes: 0.005%

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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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: 2025-07-27

Batch Data:

Batch # 252807211
Batch Date: 2025-07-28
Extracted From: Hemp

Order Details:

Test Reg State: Florida
Food Permit #: 397102

Order #

RAR250729-100001
Order Date: 2025-07-29
Sample # AAGY497

Sampling Date: 2025-07-31

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

Initial Gross Weight: 190.700
g

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

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



Potency 11 (LCUV) + Potency 25 (LCUV)

Specimen Weight: 1513.400 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)
Delta9-THCP	100.000	1.170000E-5	0.0012	2.59	0.259	12.9	388
Delta-9 THC	10.000	1.300000E-5	0.0015	2.05	0.205	10.3	308
CBD	10.000	5.400000E-5	0.0015	1.33	0.133	6.65	200
CBT	10.000	2.000000E-4	0.0015	0.279	0.0279	1.39	41.8
CBDV	10.000	6.500000E-5	0.0015	0.0400	0.00400	0.200	6.00
Delta8-THCP	10.000	3.750000E-4	0.0015	0.0351	0.00350	0.176	5.27
CBC	10.000	1.800000E-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
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
Delta-8 THCV	10.000	4.000000E-5	0.0015	0.0161	0.00160	0.0805	2.42
CBL	10.000	3.500000E-5	0.0015	0.00138	0.00138	0.00688	0.206
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			2.05	0.205	10.3	308
Total Active CBD	10.000			1.33	0.133	6.65	200

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



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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: 2025-07-27

Batch Data:

Batch # 252807211
Batch Date: 2025-07-28
Extracted From: Hemp

Order Details:

Test Reg State: Florida
Food Permit #: 397102

Order #

RAR250729-100001
Order Date: 2025-07-29
Sample # AAGY497

Sampling Date: 2025-07-31

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

Initial Gross Weight: 190.700 g

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

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

Terpenes				Tested			
Specimen Weight: 1513.400 mg				SOP13.045 (GC-MS/GC (Liquid Injection))			
Dilution Factor: 20.000							
Analyte	LOQ (%)	Result (mg/g)	(%)	Analyte	LOQ (%)	Result (mg/g)	(%)
alpha-Bisabolol	0.002	0.0510	0.005	Fenchyl Alcohol	0.002	<LOQ	
(+)-Cedrol	0.002	<LOQ		Gamma-Terpinene	0.002	<LOQ	
(R)-(+)-Limonene	0.002	<LOQ		Geraniol	0.002	<LOQ	
3-Carene	0.002	<LOQ		Geranyl acetate	0.002	<LOQ	
alpha-Cedrene	0.002	<LOQ		Guaial	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-Caryophyllene	0.002	<LOQ	
Farnesene	0.002	<LOQ		trans-Nerolidol	0.002	<LOQ	
Fenchone	0.002	<LOQ		Valencene	0.002	<LOQ	

PCR Total Yeast and Mold				Passed	
Specimen Weight: 520.600 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: 1014.700 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					

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



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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: 2025-07-27

Batch Data:

Batch # 252807211
Batch Date: 2025-07-28
Extracted From: Hemp

Order Details:

Test Reg State: Florida
Food Permit #: 397102

Order #

RAR250729-100001
Order Date: 2025-07-29
Sample # AAGY497

Sampling Date: 2025-07-31

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

Initial Gross Weight: 190.700
g

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

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



Heavy Metals Florida

Specimen Weight: 248.900 mg

Passed

SOP13.048 (ICP-MS)

Dilution Factor: 200.884

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: 600.300 mg

Passed

SOP13.007 (LCMS/GCMS)

Dilution Factor: 2.500

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					



Residual Solvents - FL (CBD)

Specimen Weight: 7.500 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	151	Toluene	0.001	29.2	150	<LOQ
Ethyl Acetate	0.001	11.1	400	20.0	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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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: 2025-07-27

Batch Data:

Batch # 252807211
Batch Date: 2025-07-28
Extracted From: Hemp

Order Details:

Test Reg State: Florida
Food Permit #: 397102

Order

RAR250729-100001
Order Date: 2025-07-29
Sample # AAGY497

Sampling Date: 2025-07-31

Lab Batch Date: 2025-07-31
Completion Date: 2025-08-07Initial Gross Weight: 190.700
gNet Weight per Package:
150000.000 mg
Sampling Method:
MSP 7.3.1Net Weight per Serving:
5000 mg
Servings Per Package:
30

Pesticides Florida

Specimen Weight: 600.300 mg

Passed

SOP13.007 (LCMS/GCMS)

Dilution Factor: 2.500

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

Manufacturing Facility:

RA Royal
41 enterprise dr
Unit 101
Bunnell, Florida 32110
Production Date: 2025-07-27

Batch Data:

Batch # 252807206
Batch Date: 2025-07-28
Extracted From: Hemp

Order Details:

Test Reg State: Florida
Food Permit #: 397102

Order #

RAR250729-100001
Order Date: 2025-07-29
Sample # AAGY498

Sampling Date: 2025-07-31

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

Initial Gross Weight: 197.700 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



Terpenes
Tested



Heavy Metals
Passed



Mycotoxins
Passed



Pesticides
Passed



Residual Solvents
Passed



Pathogenic
Passed



Microbiology (qPCR)
Passed

Potency Summary

Delta 9 THC	0.184%	Total Active CBD	0.120%
per Serving	9.20 mg	per Serving	6.00 mg
per Package	276 mg	per Package	180 mg
Total CBG	<LOQ	Total CBN	<LOQ
per Serving	0.00 mg	per Serving	0.00 mg
per Package	0.00 mg	per Package	0.00 mg
Total Cannabinoids	0.582%	Total Active THC	0.184%
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, (ug/g) = Microgram per Gram, (ppm) = Parts per Million, (ppm) = (ug/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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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: 2025-07-27

Batch Data:

Batch # 252807206
Batch Date: 2025-07-28
Extracted From: Hemp

Order Details:

Test Reg State: Florida
Food Permit #: 397102

Order #

RAR250729-100001
Order Date: 2025-07-29
Sample # AAGY498

Sampling Date: 2025-07-31

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

Initial Gross Weight: 197.700 g

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

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



Potency 11 (LCUV) + Potency 25 (LCUV)

Specimen Weight: 1513.700 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)
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

Aixia Sun

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



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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: 2025-07-27

Batch Data:

Batch # 252807206
Batch Date: 2025-07-28
Extracted From: Hemp

Order Details:

Test Reg State: Florida
Food Permit #: 397102

Order

RAR250729-100001
Order Date: 2025-07-29
Sample # AAGY498

Sampling Date: 2025-07-31

Lab Batch Date: 2025-07-31
Completion Date: 2025-08-07Initial Gross Weight: 197.700
gNet Weight per Package:
150000.000 mg
Sampling Method:
MSP 7.3.1Net Weight per Serving:
5000 mg
Servings Per Package:
30

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	
alpha-Bisabolol	0.002	0.0490	0.005	Fenchyl Alcohol	0.002	<LOQ	
trans-Caryophyllene	0.002	0.0290	0.003	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: 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 Specimen Weight: 1038.000 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
D.H.Sc., M.Sc., B.Sc., MT (AAB)

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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: 2025-07-27

Batch Data:

Batch # 252807206
Batch Date: 2025-07-28
Extracted From: Hemp

Order Details:

Test Reg State: Florida
Food Permit #: 397102

Order

RAR250729-100001
Order Date: 2025-07-29
Sample # AAGY498

Sampling Date:

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

Initial Gross Weight: 197.700
g

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

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

Heavy Metals Florida

Specimen Weight: 253.300 mg

Passed
SOP13.048 (ICP-MS)

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

Mycotoxins

Specimen Weight: 608.700 mg

Passed
SOP13.007 (LCMS/GCMS)

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					

Residual Solvents - FL (CBD)

Specimen Weight: 18.600 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					

Aixia Sun

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



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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: 2025-07-27

Batch Data:

Batch # 252807206
Batch Date: 2025-07-28
Extracted From: Hemp

Order Details:

Test Reg State: Florida
Food Permit #: 397102

Order

RAR250729-100001
Order Date: 2025-07-29
Sample # AAGY498

Sampling Date: 2025-07-31

Lab Batch Date: 2025-07-31
Completion Date: 2025-08-07Initial Gross Weight: 197.700
gNet Weight per Package:
150000.000 mg
Sampling Method:
MSP 7.3.1Net Weight per Serving:
5000 mg
Servings Per Package:
30

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 (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

Manufacturing Facility:

RA Royal
41 enterprise dr
Unit 101
Bunnell, Florida 32110
Production Date: 2025-07-27

Batch Data:

Batch # 252807201
Batch Date: 2025-07-28
Extracted From: Hemp

Order Details:

Test Reg State: Florida
Food Permit #: 397102

Order #

RAR250729-100001
Order Date: 2025-07-29
Sample # AAGY499

Sampling Date: 2025-07-31

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

Initial Gross Weight: 194.000
g

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

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



Product Image



Potency
Tested



Residual Solvents
Passed



Terpenes
Tested



Pathogenic
Passed



Heavy Metals
Passed



Microbiology (qPCR)
Passed



Mycotoxins
Passed



Pesticides
Passed

Potency Summary

Delta 9 THC	0.184%	Total Active CBD	0.118%
per Serving	9.20 mg	per Serving	5.90 mg
per Package	276 mg	per Package	177 mg
Total CBG	<LOQ	Total CBN	<LOQ
per Serving	0.00 mg	per Serving	0.00 mg
per Package	0.00 mg	per Package	0.00 mg
Total Cannabinoids	0.574%	Total Active THC	0.184%
per Serving	27.9 mg	per Serving	9.20 mg
per Package	838 mg	per Package	276 mg



Terpenes Summary

Analyte	Result (mg/g)	(%)
(R)-(+)-Limonene	0.054	0.005%
alpha-Bisabolol	0.052	0.005%
trans-Caryophyllene	0.039	0.004%

Total Terpenes: 0.014%

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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Compliance Test

Client Information:

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41 enterprise dr
Unit 101
Bunnell, Florida 32110

Manufacturing Facility:

RA Royal
41 enterprise dr
Unit 101
Bunnell, Florida 32110
Production Date: 2025-07-27

Batch Data:

Batch # 252807201
Batch Date: 2025-07-28
Extracted From: Hemp

Order Details:

Test Reg State: Florida
Food Permit #: 397102

Order

RAR250729-100001
Order Date: 2025-07-29
Sample # AAGY499

Sampling Date: 2025-07-31

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

Initial Gross Weight: 194.000
g

Net Weight per Package:
150000.000 mg

Sampling Method:
MSP 7.3.1

Net Weight per Serving:
5000 mg

Servings Per Package:
30



Potency 11 (LCUV) + Potency 25 (LCUV)

Specimen Weight: 1547.900 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)
Delta9-THCP	100.000	1.170000E-5	0.0012	2.28	0.228	11.4	342
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	1.18	0.118	5.90	177
CBT	10.000	2.000000E-4	0.0015	0.242	0.0242	1.21	36.3
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
Delta8-THCP	10.000	3.750000E-4	0.0015	0.0299	0.00300	0.150	4.49
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	0.0152	0.00150	0.0760	2.28
Delta-8 THCV	10.000	4.000000E-5	0.0015	0.00106	0.00106	0.00529	0.159
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			1.18	0.118	5.90	177

Aixia Sun

Aixia Sun Lab Director/Principal Scientist

D.H.Sc., M.Sc., B.Sc., MT (AAB)



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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: 2025-07-27

Batch Data:

Batch # 252807201
Batch Date: 2025-07-28
Extracted From: Hemp

Order Details:

Test Reg State: Florida
Food Permit #: 397102

Order

RAR250729-100001
Order Date: 2025-07-29
Sample # AAGY499

Sampling Date: 2025-07-31

Lab Batch Date: 2025-07-31
Completion Date: 2025-08-07Initial Gross Weight: 194.000
gNet Weight per Package:
150000.000 mg
Sampling Method:
MSP 7.3.1Net Weight per Serving:
5000 mg
Servings Per Package:
30

Terpenes				Tested			
Specimen Weight: 1547.900 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	0.0540	0.005	Fenchone	0.002	<LOQ	
alpha-Bisabolol	0.002	0.0520	0.005	Fenchyl Alcohol	0.002	<LOQ	
trans-Caryophyllene	0.002	0.0390	0.004	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		Guaial	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: 508.700 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: 1026.600 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				

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

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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: 2025-07-27

Batch Data:

Batch # 252807201
Batch Date: 2025-07-28
Extracted From: Hemp

Order Details:

Test Reg State: Florida
Food Permit #: 397102

Order #

RAR250729-100001
Order Date: 2025-07-29
Sample # AAGY499

Sampling Date: 2025-07-31

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

Initial Gross Weight: 194.000
g

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

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



Heavy Metals Florida

Specimen Weight: 249.500 mg

Passed
SOP13.048 (ICP-MS)

Dilution Factor: 200.401

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: 611.800 mg

Passed
SOP13.007 (LCMS/GCMS)

Dilution Factor: 2.450

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					



Residual Solvents - FL (CBD)

Specimen Weight: 16.800 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	15.0	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					

Aixa Sun

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



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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: 2025-07-27

Batch Data:

Batch # 252807201
Batch Date: 2025-07-28
Extracted From: Hemp

Order Details:

Test Reg State: Florida
Food Permit #: 397102

Order

RAR250729-100001
Order Date: 2025-07-29
Sample # AAGY499

Sampling Date: 2025-07-31

Lab Batch Date: 2025-07-31
Completion Date: 2025-08-07Initial Gross Weight: 194.000
gNet Weight per Package:
150000.000 mg
Sampling Method:
MSP 7.3.1Net Weight per Serving:
5000 mg
Servings Per Package:
30

Pesticides Florida

Specimen Weight: 611.800 mg

Passed

SOP13.007 (LCMS/GCMS)

Dilution Factor: 2.450

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 # RAR250331-020001

Order Date: 2025-03-31

Sample # AAG0188

Batch # 0324259054
Batch Date: 2025-03-25
Extracted From: Hemp

Test Reg State: Georgia

Sampling Date: 2025-04-03
Lab Batch Date: 2025-04-03
Completion Date: 2025-04-17Initial Gross Weight: 208.100 g
Net Weight: 150.000 gNumber of Units: 1
Net Weight per Unit: 5000.000 mg
Sampling Method: MSP 7.3.1

Product Image

Potency
TestedHHCP
TestedPathogenic Microbiology
TestedHeavy Metals
PassedMycotoxins
PassedPesticides
PassedResidual Solvents
PassedMicrobiology
TestedFiltration and Foreign
PassedPotency (LCUV) (GA) + Potency
25 (LCUV)

Specimen Weight: 202.300 mg

Tested
SOP13.001 (LCUV)

Pieces For Panel: 30

Analyte	Dilution (1:n)	LOD (mg/g)	LOQ (%)	Result (mg/g)	(%)
CBD	10.000	5.40E-5	0.0015	3.8800	0.3880
Delta9-THCP *	10.000	1.17E-5	0.0012	2.2620	0.2262
Delta-8 THC	10.000	2.60E-5	0.0015	0.6900	0.0690
Delta-9 THC	10.000	2.80E-4	0.075	0.0511	0.0511
CBT	10.000	2.00E-4	0.0015	0.1549	0.0155
CBC	10.000	2.76E-5	0.075	0.00304	0.00304
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
CBN	10.000	1.40E-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
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
Delta-8 THCV	10.000	4.00E-5	0.0015	<LOQ	<LOQ
Delta8-THCP *	10.000	3.75E-4	0.0015	<LOQ	<LOQ
THCA-A	10.000	3.20E-5	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			3.880	0.388
Total Active THC	10.000			0.511	0.051



Potency Summary

Total HHC None Detected	Total Active THC 0.051% 2.55 mg
Total Active CBD 0.388% 19.4 mg	Total CBG None Detected
Total CBN None Detected	Total Cannabinoids 0.753% 37.642 mg

Summary Results determined from two distinct Potency Tests - Potency (LCUV) (GA) +
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, (µg/g), (aw) = Water Activity, (mg/Kg) = Milligram per Kilogram, The results apply to the sample as received.
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Certificate of Analysis

Compliance Test

Client Information:

RA Royal
41 enterprise dr
Unit 101

Bunnell, Florida 32110

Order # RAR250331-020001

Order Date: 2025-03-31

Sample # AAGO188

Batch # 0324259054
Batch Date: 2025-03-25
Extracted From: Hemp

Test Reg State: Georgia

Sampling Date: 2025-04-03
Lab Batch Date: 2025-04-03
Completion Date: 2025-04-17

Initial Gross Weight: 208.100 g
Net Weight: 150.000 g

Number of Units: 1
Net Weight per Unit: 5000.000 mg
Sampling Method: MSP 7.3.1



Microbiology Pathogenic AE qPCR - (GA)

Specimen Weight: 1025.400 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: 1005.500 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)

Net Weight: 150.000 g

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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Certificate of Analysis

Compliance Test

Client Information:

RA Royal
41 enterprise dr
Unit 101

Batch # 0324259054
Batch Date: 2025-03-25
Extracted From: Hemp

Test Reg State: Georgia

Bunnell, Florida 32110

Order # RAR250331-020001

Order Date: 2025-03-31

Sample # AAG0188

Sampling Date: 2025-04-03
Lab Batch Date: 2025-04-03
Completion Date: 2025-04-17

Initial Gross Weight: 208.100 g
Net Weight: 150.000 g

Number of Units: 1
Net Weight per Unit: 5000.000 mg
Sampling Method: MSP 7.3.1



Heavy Metals - (GA) (Edible)

Specimen Weight: 249.800 mg

Passed
SOP13.048 (ICP-MS)

Dilution Factor: 200.160

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: 15.600 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: 597.300 mg

Passed
SOP13.007 (LCMS)

Dilution Factor: 2.510

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					

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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Certificate of Analysis

Compliance Test

Client Information:

RA Royal
41 enterprise dr
Unit 101

Bunnell, Florida 32110

Order # RAR250331-020001

Order Date: 2025-03-31

Sample # AAGO188

Batch # 0324259054
Batch Date: 2025-03-25
Extracted From: Hemp

Test Reg State: Georgia

Sampling Date: 2025-04-03
Lab Batch Date: 2025-04-03
Completion Date: 2025-04-17

Initial Gross Weight: 208.100 g
Net Weight: 150.000 g

Number of Units: 1
Net Weight per Unit: 5000.000 mg
Sampling Method: MSP 7.3.1

HHCP

Specimen Weight: 202.300 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	<LOQ	<LOQ CBC	2.760000E-5	0.075	<LOQ	<LOQ
(9S)-HHC	6.6000E-6	0.075	<LOQ	<LOQ 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	<LOQ	<LOQ
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	<LOQ	<LOQ
9(S)-HHCP	2.5500E-5	0.075	<LOQ	<LOQ				

Aixia Sun

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

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Certificate of Analysis

Compliance Test

Client Information:

RA Royal
41 enterprise dr
Unit 101

Bunnell, Florida 32110

Order # RAR250331-020001

Order Date: 2025-03-31

Sample # AAG0188

Batch # 0324259054
Batch Date: 2025-03-25
Extracted From: Hemp

Test Reg State: Georgia

Sampling Date: 2025-04-03
Lab Batch Date: 2025-04-03
Completion Date: 2025-04-17

Initial Gross Weight: 208.100 g
Net Weight: 150.000 g

Number of Units: 1
Net Weight per Unit: 5000.000 mg
Sampling Method: MSP 7.3.1

Pesticides - (GA)
Specimen Weight: 597.300 mg

Passed
SOP13.007 (LCMS)

Dilution Factor: 2.510

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	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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