



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: 2025-07-09	Batch Data: Batch # 251715129 Batch Date: 2025-07-10 Extracted From: Hemp	Order Details: Test Reg State: Florida Food Permit #: 397102
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Order # RAR250902-020001 Order Date: 2025-09-02 Sample # AAHB222	Sampling Date: 2025-09-04 Lab Batch Date: 2025-09-04 Completion Date: 2025-09-15	Initial Gross Weight: 196.200 g	Net Weight per Package: 150000.000 mg	Net Weight per Serving: 5000 mg Servings Per Package: 30
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Product Image

Potency Tested	HHCP Tested	Heavy Metals Passed	Mycotoxins Passed	Pesticides Passed
Residual Solvents Passed	Pathogenic Passed	Microbiology Tested	Filtration and Foreign Passed	

Potency Summary

Total HHC	0.471%	Delta 9 THC	<LOQ
per Serving	23.6 mg	per Serving	0.00 mg
per Package	707 mg	per Package	0.00 mg
Total Active CBD	0.0830%	Total CBG	0.0130%
per Serving	4.15 mg	per Serving	0.650 mg
per Package	125 mg	per Package	19.5 mg
Total CBN	0.00200%	Total Cannabinoids	0.576%
per Serving	0.100 mg	per Serving	28.8 mg
per Package	3.00 mg	per Package	864 mg
Total Active THC	<LOQ	Total (9R)-HHC	0.313%
per Serving	0.00 mg	per Serving	15.65 mg
per Package	0.00 mg	per Package	469.5 mg
Total 9(R)-HHCP	0.0391%		
per Serving	1.96 mg		
per Package	58.65 mg		

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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 + THCP (LCUV) (GA) Specimen Weight: 1519.700 mg	Tested	SOP13.001 (LCUV)				
Pieces For Panel: 30						
Analyte	LOD (mg/g)	LOQ (%)	Result (mg/g)	(%)	Per Serving (mg)	Per Package (mg)
CBD	0.000054	0.0015	0.830	0.0830	4.15	125
CBG	0.000248	0.0015	0.130	0.0130	0.650	19.5
Delta-8 THC	0.000026	0.0015	0.0700	0.00700	0.350	10.5
CBN	0.000014	0.0015	0.0200	0.00200	0.100	3.00
CBDA	0.00001	0.0015	<LOQ	<LOQ	0.00	0.00
CBGA	0.00008	0.0015	<LOQ	<LOQ	0.00	0.00
Delta-10 THC	0.000003	0.0015	<LOQ	<LOQ	0.00	0.00
Delta-9 THC	0.000013	0.0015	<LOQ	<LOQ	0.00	0.00
Delta8-THCP	0.000375	0.0015	<LOQ	<LOQ	0.00	0.00
Delta9-THCP	0.0000117	0.0012	<LOQ	<LOQ	0.00	0.00
Exo-THC	0.00023	0.0015	<LOQ	<LOQ	0.00	0.00
Total Active THC			<LOQ	<LOQ	0.00	0.00
Total Active CBD			0.830	0.0830	4.15	125

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Pathogenic SAE (qPCR) FL Specimen Weight: 1041.700 mg Dilution Factor: 1.000	<b style="color: green;">Passed SOP13.029 (qPCR)																		
<table border="1" style="width: 100%; border-collapse: collapse;"> <thead> <tr> <th>Analyte</th> <th>Action Level (cfu/g)</th> <th>Result (cfu/g)</th> <th>Analyte</th> <th>Action Level (cfu/g)</th> <th>Result (cfu/g)</th> </tr> </thead> <tbody> <tr> <td>Aspergillus (Flavus, Fumigatus, Niger, Terreus)</td> <td>1</td> <td style="color: green;">Absence in 1g</td> <td>Shiga toxin-producing E. coli (STEC)</td> <td>1</td> <td style="color: green;">Absence in 1g</td> </tr> <tr> <td>Salmonella</td> <td>1</td> <td style="color: green;">Absence in 1g</td> <td></td> <td></td> <td></td> </tr> </tbody> </table>	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				
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																	

Microbiology AC TYM BTGN plating - (GA) Specimen Weight: 996.200 mg Dilution Factor: 1.000	<b style="color: green;">Tested SOP13.003 (Petrifilm)																								
<table border="1" style="width: 100%; border-collapse: collapse;"> <thead> <tr> <th>Analyte</th> <th>LOQ (cfu/g)</th> <th>Action Level (cfu/g)</th> <th>Result (cfu/g)</th> <th>Analyte</th> <th>LOQ (cfu/g)</th> <th>Action Level (cfu/g)</th> <th>Result (cfu/g)</th> </tr> </thead> <tbody> <tr> <td>Bile tolerant gram-negative bacteria</td> <td>100</td> <td>1000</td> <td style="color: green;"><100</td> <td>Total Yeast/Mold</td> <td>1000</td> <td>10000</td> <td style="color: green;"><1000</td> </tr> <tr> <td>Total Aerobic Count</td> <td>1000</td> <td>100000</td> <td style="color: green;"><1000</td> <td></td> <td></td> <td></td> <td></td> </tr> </tbody> </table>	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					
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																						

Filth and Foreign Material Specimen Weight: N/A Dilution Factor: 1.000	<b style="color: green;">Passed SOP13.020 (Electronic Balance)																		
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Analyte	Action Level (%)	Result (%)	Analyte	Action Level (%)	Result (%)														
Covered Area	10	0.00	Weight %	1	0.00														
Feces	0.5	0.00																	

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H Heavy Metals Florida **Passed**
Specimen Weight: 249.200 mg SOP13.048 (ICP-MS)

Dilution Factor: 200.642

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: 590.900 mg 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 **Tested**
Specimen Weight: 1519.700 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	3.13	0.313 9(S)-HHCP	0.000	0.0015	0.110	0.011
(9S)-HHC	0.000	0.075	1.08	0.108 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	<LOQ	<LOQ
1(S)-H4-CBD	0.000	0.15	<LOQ	<LOQ H2-CBD	0.000	0.075	<LOQ	<LOQ
9(R)-HHCP	0.000	0.0015	0.391	0.0391 Total HHC		0.075	4.71	0.4711

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Residual Solvents - FL (CBD) **Passed**
Specimen Weight: 17.900 mg 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: 590.900 mg

Passed
SOP13.007 (LCMS/GCMS)

Dilution Factor: 2.540

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
Chloromequat 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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