



**Certificate of Analysis**  
Compliance Test

Client Information:

**Pan Pacific Ventures / Maui**  
**Grown Remedies**  
PO BOX 672  
KULA, HI 96790

Batch # ACB003  
Batch Date: 2024-01-29  
Extracted From: 003

Test Reg State: Florida

Order # PAN240129-010001  
Order Date: 2024-01-29  
Sample # AAFG277

Sampling Date: 2024-02-01  
Lab Batch Date: 2024-02-01  
Completion Date: 2024-02-08

Initial Gross Weight: 126.500 g



Product Image

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

**Potency 10**  
Specimen Weight: 500.410 mg

Analyte	Dilution (1:n)	LOD (%)	LOQ (%)	Result		SOP13.001 (LCUV)
				(mg/g)	(%)	
CBD	50.000	5.40E-5	0.0015	39.3500	3.9350	
CBG	50.000	2.48E-4	0.0015	3.7200	0.3720	
Delta-9 THC	50.000	1.30E-5	0.0015	0.6700	0.0670	
CBDV	50.000	6.50E-5	0.0015	0.3200	0.0320	
CBC	50.000	1.80E-5	0.0015	<LOQ	<LOQ	
CBDA	50.000	1.00E-5	0.0015	<LOQ	<LOQ	
CBGA	50.000	8.00E-5	0.0015	<LOQ	<LOQ	
CBN	50.000	1.40E-5	0.0015	<LOQ	<LOQ	
THCA-A	50.000	3.20E-5	0.0015	<LOQ	<LOQ	
THCV	50.000	7.00E-6	0.0015	<LOQ	<LOQ	
Total Active CBD	50.000			39.350	3.935	
Total Active THC	50.000			0.670	0.067	

**Potency Summary**

<b>Total Active THC</b> 0.067%	<b>Total Active CBD</b> 3.935%
<b>Total CBG</b> 0.372%	<b>Total CBN</b> None Detected
<b>Other Cannabinoids</b> 0.032%	<b>Total Cannabinoids</b> 4.406%

**Terpenes Summary**

Analyte	Result (mg/g)	(%)
Eucalyptol	22.511	2.251%
(R)-(+)-Limonene	13.322	1.332%
alpha-Phellandrene	7.551	0.755%
alpha-Pinene	7.463	0.746%
trans-Caryophyllene	7.44	0.744%
3-Carene	5.755	0.576%
beta-Pinene	4.794	0.479%
Sabinene	2.809	0.281%
beta-Myrcene	1.348	0.135%
Fenchyl Alcohol	0.942	0.094%
alpha-Terpinene	0.88	0.088%
Ocimene	0.689	0.069%
alpha-Humulene	0.471	0.047%
Gamma-Terpinene	0.364	0.036%
Caryophyllene oxide	0.345	0.035%
Terpinolene	0.24	0.024%
Camphene	0.205	0.021%

**Total Terpenes: 7.713%**

Detailed Terpenes Analysis is on the following page

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 \* 0.87), Total Active THC = THCA-A \* 0.877 + Delta 9 THC, Total THC = THCV + (THCVA \* 0.87), CBG Total = (CBGA \* 0.877) + CBG, CBN Total = (CBNA \* 0.877) + 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. Other Cannabinoids Total = Total Cannabinoids - All the listed cannabinoids on the summary section, Total Detected Cannabinoids = Delta6a10a-THC + Delta8-THC + Total CBN + CBT + CBE + Delta8-THCV + Total CBG + Total CBD + Total THCV + CBL + Total THC + Total CBC + Total CBDV + Delta10-THC + Total THC-O-Acetate + Total THCP. (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 Sample not received via laboratory sampling. This report shall not be reproduced, without written approval, from ACS Laboratory. The results of this report relate only to the material or product analyzed. Test results are confidential unless explicitly waived otherwise. ACS Laboratory is accredited to the ISO/IEC 17025:2017 Standard.



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Test Reg State: Florida

Order # PAN240129-010001  
Order Date: 2024-01-29  
Sample # AAFG277

Sampling Date: 2024-02-01  
Lab Batch Date: 2024-02-01  
Completion Date: 2024-02-08

Initial Gross Weight: 126.500 g

**Terpenes**  
Specimen Weight: 500.410 mg

**Tested**  
SOP13.045 (GC/GCMS)

Dilution Factor: 20.000

Analyte	LOQ (%)	Result (mg/g)	(%)	Analyte	LOQ (%)	Result (mg/g)	(%)
Eucalyptol	0.002	22.511	2.251	alpha-Cedrene	0.002	<LOQ	<LOQ
(R)-(+)-Limonene	0.002	13.322	1.332	Borneol	0.004	<LOQ	<LOQ
alpha-Phellandrene	0.002	7.551	0.755	Camphors	0.006	<LOQ	<LOQ
alpha-Pinene	0.002	7.463	0.746	cis-Nerolidol	0.002	<LOQ	<LOQ
trans-Caryophyllene	0.002	7.440	0.744	Farnesene	0.002	<LOQ	<LOQ
3-Carene	0.002	5.755	0.576	Fenchone	0.002	<LOQ	<LOQ
beta-Pinene	0.002	4.794	0.479	Geraniol	0.002	<LOQ	<LOQ
Sabinene	0.002	2.809	0.281	Geranyl acetate	0.002	<LOQ	<LOQ
beta-Myrcene	0.002	1.348	0.135	Guaiol	0.002	<LOQ	<LOQ
Fenchyl Alcohol	0.002	0.942	0.094	Hexahydrothymol	0.002	<LOQ	<LOQ
alpha-Terpinene	0.002	0.880	0.088	Isoborneol	0.002	<LOQ	<LOQ
Ocimene	0.00033	0.689	0.069	Isopulegol	0.002	<LOQ	<LOQ
alpha-Humulene	0.002	0.471	0.047	Linalool	0.002	<LOQ	<LOQ
Gamma-Terpinene	0.002	0.364	0.036	Nerol	0.002	<LOQ	<LOQ
Caryophyllene oxide	0.002	0.345	0.035	Pulegone	0.002	<LOQ	<LOQ
Terpinolene	0.002	0.240	0.024	Sabinene Hydrate	0.002	<LOQ	<LOQ
Camphene	0.002	0.205	0.021	Total Terpeneol	0.00126	<LOQ	<LOQ
(+)-Cedrol	0.002	<LOQ	<LOQ	trans-Nerolidol	0.002	<LOQ	<LOQ
alpha-Bisabolol	0.002	<LOQ	<LOQ	Valencene	0.002	<LOQ	<LOQ

**Total Yeast and Mold**  
Specimen Weight: 490.900 mg

**Passed**  
SOP13.017 (qPCR)

Dilution Factor: 1.000

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

**Pathogenic Microbiology SAE (MicroArray)**  
Specimen Weight: 1003.100 mg

**Passed**  
SOP13.019 (Micro Array)

Dilution Factor: 1.000

Analyte	Result (cfu/g)	Analyte	Result (cfu/g)
Aspergillus flavus	Absence in 1g	Aspergillus terreus	Absence in 1g
Aspergillus fumigatus	Absence in 1g	Salmonella	Absence in 1g
Aspergillus niger	Absence in 1g	STEC E. Coli	Absence in 1g

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**Heavy Metals**

Specimen Weight: 247.900 mg

**Passed**  
SOP13.048 (ICP-MS)

Dilution Factor: 201

Analyte	LOD (ppb)	LOQ (ppb)	Action Level (ppb)	Result (ppb)	Analyte	LOD (ppb)	LOQ (ppb)	Action Level (ppb)	Result (ppb)
Arsenic (As)	4.83	100	1500	<LOQ	Lead (Pb)	11.76	100	500	<LOQ
Cadmium (Cd)	.64	100	500	<LOQ	Mercury (Hg)	.58	100	3000	<LOQ



**Mycotoxins**

Specimen Weight: 601.200 mg

**Passed**  
SOP13.007 (LCMS)

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	3.0400E-1	6	20	<LOQ	Aflatoxin G2	2.7100E-1	6	20	<LOQ
Aflatoxin B2	7.7000E-2	6	20	<LOQ	Ochratoxin A	7.5400E-1	3.8	20	<LOQ
Aflatoxin G1	3.0400E-1	6	20	<LOQ					



**Residual Solvents - FL (CBD)**

Specimen Weight: 303.300 mg

**Passed**  
SOP13.039 (GCMS)

Dilution Factor: 500.000

Analyte	LOD (ppm)	LOQ (ppm)	Action Level (ppm)	Result (ppm)	Analyte	LOD (ppm)	LOQ (ppm)	Action Level (ppm)	Result (ppm)
1,1-Dichloroethene	0.0094	0.16	8	<LOQ	Heptane	0.0013	1.39	5000	<LOQ
1,2-Dichloroethane	0.0003	0.04	5	<LOQ	Hexane	0.068	1.17	290	<LOQ
Acetone	0.015	2.08	5000	<LOQ	Isopropyl alcohol	0.0048	1.39	500	<LOQ
Acetonitrile	0.06	1.17	410	<LOQ	Methanol	0.0005	0.69	3000	<LOQ
Benzene	0.0002	0.02	2	<LOQ	Methylene chloride	0.0029	2.43	600	<LOQ
Butanes	0.4167	2.5	2000	<LOQ	Pentane	0.037	2.08	5000	<LOQ
Chloroform	0.0001	0.04	60	<LOQ	Propane	0.031	5.83	2100	<LOQ
Ethanol	0.0021	2.78	5000	<LOQ	Toluene	0.0009	2.92	890	<LOQ
Ethyl Acetate	0.0012	1.11	5000	<LOQ	Total Xylenes	0.0001	2.92	2170	<LOQ
Ethyl Ether	0.0049	1.39	5000	<LOQ	Trichloroethylene	0.0014	0.49	80	<LOQ
Ethylene Oxide	0.0038	0.1	5	<LOQ					

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Client Information:

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Grown Remedies Batch Date: 2024-01-29  
PO BOX 672 Extracted From: 003  
KULA, HI 96790

Order # PAN240129-010001 Sampling Date: 2024-02-01 Initial Gross Weight: 126.500 g  
Order Date: 2024-01-29 Lab Batch Date: 2024-02-01  
Sample # AAFG277 Completion Date: 2024-02-08

**Pesticides**

Specimen Weight: 601.200 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	2.8800E-1	28.23	300	<LOQ	Fludioxonil	1.7400E+0	48	3000	<LOQ
Acephate	2.3000E-2	30	3000	<LOQ	Hexythiazox	4.9000E-2	30	2000	<LOQ
Acequinocyl	9.5640E+0	48	2000	<LOQ	Imazalil	2.4800E-1	30	100	<LOQ
Acetamiprid	5.2000E-2	30	3000	<LOQ	Imidacloprid	9.4000E-2	30	3000	<LOQ
Aldicarb	2.6000E-2	30	100	<LOQ	Kresoxim Methyl	4.2000E-2	30	1000	<LOQ
Azoxystrobin	8.1000E-2	10	3000	<LOQ	Malathion	8.2000E-2	30	2000	<LOQ
Bifenazate	1.4150E+0	30	3000	<LOQ	Metalaxyl	8.1000E-2	10	3000	<LOQ
Bifenthrin	4.3000E-2	30	500	<LOQ	Methiocarb	3.2000E-2	30	100	<LOQ
Boscalid	5.5000E-2	10	3000	<LOQ	Methomyl	2.2000E-2	30	100	<LOQ
Captan	6.1200E+0	30	3000	<LOQ	methyl-Parathion	1.7100E+0	10	100	<LOQ
Carbaryl	2.2000E-2	10	500	<LOQ	Mevinphos	2.1500E+0	10	100	<LOQ
Carbofuran	3.4000E-2	10	100	<LOQ	Myclobutanil	1.0290E+0	30	3000	<LOQ
Chlorantraniliprole	3.3000E-2	10	3000	<LOQ	Naled	9.5000E-2	30	500	<LOQ
Chlordane	1.0000E+1	10	100	<LOQ	Oxamyl	2.5000E-2	30	500	<LOQ
Chlorfenapyr	3.4000E-2	30	100	<LOQ	Pacllobutrazol	6.5000E-2	30	100	<LOQ
Chlormequat Chloride	1.0800E-1	10	3000	<LOQ	Pentachloronitrobenzene	1.3200E+0	10	200	<LOQ
Chlorpyrifos	3.5000E-2	30	100	<LOQ	Permethrin	3.4300E-1	30	1000	<LOQ
Clofentezine	1.1900E-1	30	500	<LOQ	Phosmet	8.2000E-2	30	200	<LOQ
Coumaphos	3.7700E+0	48	100	<LOQ	Piperonylbutoxide	2.9000E-2	30	3000	<LOQ
Cyfluthrin	3.1100E+0	30	1000	<LOQ	Prallethrin	7.9800E-1	30	400	<LOQ
Cypermethrin	1.4490E+0	30	1000	<LOQ	Propiconazole	7.0000E-2	30	1000	<LOQ
Daminozide	8.8500E-1	30	100	<LOQ	Propoxur	4.6000E-2	30	100	<LOQ
Diazinon	4.4000E-2	30	200	<LOQ	Pyrethrins	2.3593E+1	30	1000	<LOQ
Dichlorvos	2.1820E+0	30	100	<LOQ	Pyridaben	3.2000E-2	30	3000	<LOQ
Dimethoate	2.1000E-2	30	100	<LOQ	Spinetoram	8.0000E-2	10	3000	<LOQ
Dimethomorph	5.8300E+0	48	3000	<LOQ	Spinosad	8.8000E-2	30	3000	<LOQ
Ethoprophos	3.6000E-1	30	100	<LOQ	Spiromesifen	2.6100E-1	30	3000	<LOQ
Etofenprox	1.1600E-1	30	100	<LOQ	Spirotetramat	8.9000E-2	30	3000	<LOQ
Etoxazole	9.5000E-2	30	1500	<LOQ	Spiroxamine	1.3100E-1	30	100	<LOQ
Fenhexamid	5.1000E-1	10	3000	<LOQ	Tebuconazole	6.7000E-2	30	1000	<LOQ
Fenoxycarb	1.0700E-1	30	100	<LOQ	Thiacloprid	6.4000E-2	30	100	<LOQ
Fenpyroximate	1.3800E-1	30	2000	<LOQ	Thiamethoxam	5.0000E-2	30	1000	<LOQ
Fipronil	1.0700E-1	30	100	<LOQ	Trifloxystrobin	3.7000E-2	30	3000	<LOQ
Flonicamid	5.1700E-1	30	2000	<LOQ					

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