



Certificate of Analysis
Compliance Test

Client Information:

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

Batch # ACB004
Batch Date: 2024-04-12
Extracted From: 04/12/2024

Test Reg State: Florida

Order # PAN240412-010001
Order Date: 2024-04-12
Sample # AAFM469

Sampling Date: 2024-04-17
Lab Batch Date: 2024-04-17
Completion Date: 2024-04-22

Initial Gross Weight: 148.729 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: 501.650 mg

Analyte	Dilution (1:n)	LOD (%)	LOQ (%)	Result (mg/g)		SOP13.001 (LCUV)
				(mg/g)	(%)	
CBD	50.000	5.40E-5	0.015	37.820	3.782	
CBG	50.000	2.48E-4	0.015	4.380	0.438	
CBDV	50.000	6.50E-5	0.015	0.180	0.018	
CBC	50.000	1.80E-5	0.015	<LOQ	<LOQ	
CBDA	50.000	1.00E-5	0.015	<LOQ	<LOQ	
CBGA	50.000	8.00E-5	0.015	<LOQ	<LOQ	
CBN	50.000	1.40E-5	0.015	<LOQ	<LOQ	
Delta-9 THC	50.000	1.30E-5	0.015	<LOQ	<LOQ	
THCA-A	50.000	3.20E-5	0.015	<LOQ	<LOQ	
THCV	50.000	7.00E-6	0.015	<LOQ	<LOQ	
Total Active CBD	50.000			37.820	3.782	
Total Active THC	50.000			<LOQ	<LOQ	

Tested
SOP13.001 (LCUV)

Potency Summary

Total Active THC None Detected	Total Active CBD 3.782%
Total CBG 0.438%	Total CBN None Detected
Other Cannabinoids 0.018%	Total Cannabinoids 4.238%

Terpenes Summary

Analyte	Result (mg/g)	(%)
Eucalyptol	13.998	1.4%
trans-Caryophyllene	12.892	1.289%
(R)-(+)-Limonene	9.653	0.965%
alpha-Phellandrene	7.134	0.713%
alpha-Pinene	4.242	0.424%
3-Carene	3.091	0.309%
beta-Pinene	2.966	0.297%
Sabinene	1.628	0.163%
beta-Myrcene	1.196	0.12%
alpha-Terpinene	1.193	0.119%
Terpinolene	0.512	0.051%
alpha-Humulene	0.509	0.051%
Caryophyllene oxide	0.146	0.015%
Gamma-Terpinene	0.137	0.014%
Linalool	0.113	0.011%
Camphene	0.11	0.011%

Total Terpenes: 5.952%

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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Initial Gross Weight: 148.729 g

Terpenes
Specimen Weight: 501.650 mg

Tested
SOP13.045 (GC/GCMS)

Dilution Factor: 20.000

Analyte	LOQ (%)	Result (mg/g)	(%)	Analyte	LOQ (%)	Result (mg/g)	(%)
Eucalyptol	0.002	13.998	1.400	Borneol	0.004	<LOQ	<LOQ
trans-Caryophyllene	0.002	12.892	1.289	Camphors	0.006	<LOQ	<LOQ
(R)-(+)-Limonene	0.002	9.653	0.965	cis-Nerolidol	0.002	<LOQ	<LOQ
alpha-Phellandrene	0.002	7.134	0.713	Farnesene	0.002	<LOQ	<LOQ
alpha-Pinene	0.002	4.242	0.424	Fenchone	0.002	<LOQ	<LOQ
3-Carene	0.002	3.091	0.309	Fenchyl Alcohol	0.002	<LOQ	<LOQ
beta-Pinene	0.002	2.966	0.297	Geraniol	0.002	<LOQ	<LOQ
Sabinene	0.002	1.628	0.163	Geranyl acetate	0.002	<LOQ	<LOQ
beta-Myrcene	0.002	1.196	0.120	Guaiol	0.002	<LOQ	<LOQ
alpha-Terpinene	0.002	1.193	0.119	Hexahydrothymol	0.002	<LOQ	<LOQ
alpha-Humulene	0.002	0.509	0.051	Isoborneol	0.002	<LOQ	<LOQ
Terpinolene	0.002	0.512	0.051	Isopulegol	0.002	<LOQ	<LOQ
Caryophyllene oxide	0.002	0.146	0.015	Nerol	0.002	<LOQ	<LOQ
Gamma-Terpinene	0.002	0.137	0.014	Ocimene	0.00033	<LOQ	<LOQ
Camphene	0.002	0.110	0.011	Pulegone	0.002	<LOQ	<LOQ
Linalool	0.002	0.113	0.011	Sabinene Hydrate	0.002	<LOQ	<LOQ
(+)-Cedrol	0.002	<LOQ	<LOQ	Total Terpineol	0.00126	<LOQ	<LOQ
alpha-Bisabolol	0.002	<LOQ	<LOQ	trans-Nerolidol	0.002	<LOQ	<LOQ
alpha-Cedrene	0.002	<LOQ	<LOQ	Valencene	0.002	<LOQ	<LOQ

Total Yeast and Mold
Specimen Weight: 496.300 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: 1024.900 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

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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H Heavy Metals **Passed**
Specimen Weight: 251.400 mg SOP13.048 (ICP-MS)

Dilution Factor: 198

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 **Passed**
Specimen Weight: 615.300 mg SOP13.007 (LCMS)

Dilution Factor: 2.440

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) **Passed**
Specimen Weight: 309.500 mg SOP13.039 (GCMS)

Dilution Factor: 5000.000

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					

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

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Sample # AAFM469 Completion Date: 2024-04-22

Pesticides

Specimen Weight: 615.300 mg

Passed

SOP13.007 (LCMS/GCMS)

Dilution Factor: 2.440

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	Paclbutrazol	6.5000E-2	30	100	<LOQ
Chloromequat 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
Fonicamid	5.1700E-1	30	2000	<LOQ					

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