



Certificate of Analysis

Compliance Test

Client Information:

HAPPY FRUIT
6500 S. QUEBEC ST.
UNIT 280
CENTENNIAL, CO 80111
Order # HAP251014-050001
Order Date: 2025-10-14
Sample # AAHD514

Batch # N07846
Batch Date: 2025-10-14
Extracted From: Hemp
Test Reg State: Colorado

Sampling Date: 2025-10-16
Lab Batch Date: 2025-10-16
Completion Date: 2025-10-21

Initial Gross Weight: 124.300 g
Net Weight: 120.000 g

Number of Units: 1
Net Weight per Unit: 4000.000 mg
Sampling Method: MSP 7.3.1



Product Image



Potency
Tested



Terpenes
Tested



Heavy Metals
Passed



Mycotoxins
Passed



Pesticides
Passed



Residual Solvents
Passed



Pathogenic Microbiology
Passed



Microbiology Petrifilm
Passed

Potency 25 (LCUV)
Specimen Weight: 1539.400 mg

Tested
SOP13.001 (LCUV)



Potency Summary

Total Active THC 0.132% 5.280 mg	Total Active CBD 0.008% 0.320 mg
Total CBG 0.227% 9.080 mg	Total CBN None Detected
Total Cannabinoids 0.532% 21.280 mg	Total THCV 0.147% 5.88 mg



Terpenes Summary

Analyte Result (mg/g) (%)

Total Terpenes: 0.000%

Detailed Terpenes Analysis is on the following page

Pieces For Panel: 30

Analyte	Dilution (1:n)	LOD (mg/g)	LOQ (%)	Result (mg/g)	(%)
CBG	10.000	2.48E-4	0.0015	2.2700	0.2270
THCV	10.000	7.00E-6	0.0015	1.4700	0.1470
Delta-9 THC	10.000	1.30E-5	0.0015	1.3200	0.1320
Delta-8 THC	10.000	4.00E-5	0.0015	0.1000	0.0100
CBD	10.000	5.40E-5	0.0015	0.0800	0.0080
Delta-8 THC	10.000	2.60E-5	0.0015	0.0800	0.0080
CBC	10.000	1.80E-5	0.0015	<LOQ	<LOQ
CBCA	10.000	1.07E-4	0.0015	<LOQ	<LOQ
CBDA	10.000	1.00E-5	0.0015	<LOQ	<LOQ
CBDV	10.000	6.50E-5	0.0015	<LOQ	<LOQ
CBDVA	10.000	1.40E-5	0.0015	<LOQ	<LOQ
CBGA	10.000	8.00E-5	0.0015	<LOQ	<LOQ
CBL	10.000	3.50E-5	0.0015	<LOQ	<LOQ
CBN	10.000	1.40E-5	0.0015	<LOQ	<LOQ
CBNA	10.000	9.50E-5	0.0015	<LOQ	<LOQ
CBT	10.000	2.00E-4	0.0015	<LOQ	<LOQ
Delta-8 THC-O Acetate	10.000	2.70E-5	0.003	<LOQ	<LOQ
Delta-9 THC-O Acetate	10.000	7.70E-5	0.003	<LOQ	<LOQ
Delta8-THCP	10.000	3.75E-4	0.0015	<LOQ	<LOQ
Delta9-THCP	10.000	1.17E-5	0.0012	<LOQ	<LOQ
Exo-THC	10.000	2.30E-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
THCVA	10.000	4.70E-5	0.0015	<LOQ	<LOQ
Total Active CBD	10.000			0.080	0.008
Total Active THC	10.000			1.320	0.132

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) = (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 CO rule 6 CCR 1010-21. Failed - Analyte/microbe is at the level that equal or above the action limit per CO rule 6 CCR 1010-21. The results apply to the sample as received.
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Initial Gross Weight: 124.300 g
Net Weight: 120.000 g

Number of Units: 1
Net Weight per Unit: 4000.000 mg
Sampling Method: MSP 7.3.1



Terpenes

Specimen Weight: 1539.400 mg

Dilution Factor: 20.000

Tested

SOP13.045 (GC-MS
/GC (Liquid
Injection))

Analyte	LOQ (%)	Result (mg/g)	(%)	Analyte	LOQ (%)	Result (mg/g)	(%)
(+)-Cedrol	0.002	<LOQ		Fenchyl Alcohol	0.002	<LOQ	
(R)-(+)-Limonene	0.002	<LOQ		Gamma-Terpinene	0.002	<LOQ	
3-Carene	0.002	<LOQ		Geraniol	0.002	<LOQ	
alpha-Bisabolol	0.002	<LOQ		Geranyl acetate	0.002	<LOQ	
alpha-Cedrene	0.002	<LOQ		Guaiaol	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	



Pathogenic Microbiology - SE (MicroArray) - CO

Specimen Weight: 25.700 g

Dilution Factor: 1.000

Passed

SOP13.019 (Micro
Array)

Analyte	Action Limit (cfu/g)	Result (cfu/g)	Analyte	Action Limit (cfu/g)	Result (cfu/g)
Salmonella	25	Absence in 25g	STEC	25	Absence in 25g



Microbiology (Petrifilm) - CO

Specimen Weight: 1001.100 mg

Dilution Factor: 1.000

Passed

SOP13.019 (Micro
Array)

Analyte	LOQ (cfu/g)	Action Limit (cfu/g)	Result (cfu/g)	Analyte	LOQ (cfu/g)	Action Limit (cfu/g)	Result (cfu/g)
Aerobic Bacteria	10	10000	<10	Yeast/Mold	10	1000	<10
Total Coliform	10	100	<10				

Aixa Sun

Lab Director/Principal Scientist

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Mycotoxins - CO

Specimen Weight: 583.500 mg

Dilution Factor: 2.570

Analyte	LOD (ppb)	LOQ (ppb)	Action Limit (ppb)	Result (ppb)	Analyte	LOD (ppb)	LOQ (ppb)	Action Limit (ppb)	Result (ppb)
					Ochratoxin A	1.8997E-1	3.5	5	<LOQ
Aflatoxin B1	3.7250E-1	2.5	5	<LOQ					
Aflatoxin Total		2.5	20	<LOQ					

Passed

SOP14.003
(GCMS/LCMS)



Heavy Metals - CO

Specimen Weight: 251.200 mg

Dilution Factor: 199.045

Analyte	LOD (ppb)	LOQ (ppb)	Action Limit (ppb)	Result (ppb)	Analyte	LOD (ppb)	LOQ (ppb)	Action Limit (ppb)	Result (ppb)
					Lead (Pb)	0.58	100	500	<LOQ
Arsenic (As)	4.83	100	1500	<LOQ	Mercury (Hg)	11.76	100	1500	<LOQ
Cadmium (Cd)	0.64	100	500	<LOQ					

Passed

SOP13.048 (ICP-MS)



Residual Solvents - CO

Specimen Weight: 1.400 mg

Dilution Factor: 1.000

Analyte	LOD (ppm)	LOQ (ppm)	Action Limit (ppm)	Result (ppm)	Analyte	LOD (ppm)	LOQ (ppm)	Action Limit (ppm)	Result (ppm)
Acetone	0.001	0.5	1000	<LOQ	Isopropyl alcohol	0.111	0.5	1000	<LOQ
Benzene	0.000	0.5	2	<LOQ	Methanol	0.002	0.5	100	<LOQ
Butanes	0.003	0.5	100	<LOQ	Pentane	0.017	0.5	1000	<LOQ
Ethanol	0.000	0.5	5000	960	Propane	0.085	0.5	100	<LOQ
Ethyl Acetate	0.002	0.5	1000	<LOQ	Toluene	0.000	0.5	20	<LOQ
Heptane	0.002	0.5	1000	<LOQ	Total Xylenes	0.000	2.92	40	<LOQ
Hexane	0.001	0.5	10	<LOQ					

Passed

SOP13.039, SOP13.056
(GCMS-HS, GCMS-HS)

Aixia Sun

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

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Pesticides - CO

Specimen Weight: 583.500 mg

Passed

SOP14.003 (GCMS/LCMS)

Dilution Factor: 2.570

Analyte	LOD (ppb)	LOQ (ppb)	Action Limit (ppb)	Result (ppb)	Analyte	LOD (ppb)	LOQ (ppb)	Action Limit (ppb)	Result (ppb)	Analyte	LOD (ppb)	LOQ (ppb)	Action Limit (ppb)	Result (ppb)
Abamectin	3.1800E-4	250	50	<LOQ	Dodemorph	6.4700E-12	50	50	<LOQ	Naled	5.8500E-6	100	100	<LOQ
Acephate	3.9632E-2	50	50	<LOQ	Endosulfan sulfate	8.8376E-1	2500	2500	<LOQ	Novaluron	2.0500E-4	25	25	<LOQ
Acequinocyl	5.7646E-2	30	30	<LOQ	Endosulfan-alpha	1.2220E+1	2500	2500	<LOQ	Oxamyl	1.6190E-3	1500	1500	<LOQ
Acetamiprid	3.3800E-10	50	50	<LOQ	Endosulfan-beta	2.2760E+1	2500	2500	<LOQ	Paclobutrazol	6.9300E-8	10	10	<LOQ
Aldicarb	2.2744E-2	500	500	<LOQ	Ethoprophos	1.5900E-5	10	10	<LOQ	Pentachloronitrobenzen	4.3900E+0	20	20	<LOQ
Allethrin	4.7244E-1	100	100	<LOQ	Etofenprox	8.3050E-3	50	50	<LOQ	(Quintozene)				
Atrazine	3.7992E-1	25	25	<LOQ	Etoxazole	8.3558E-1	20	20	<LOQ	Permethrin	2.2089E-2	500	500	<LOQ
Azadirachtin	3.0710E-3	500	500	<LOQ	Etridiazole	4.0200E+0	150	150	<LOQ	Phenothrin	2.1200E-7	50	50	<LOQ
Azoxystrobin	1.3247E-2	10	10	<LOQ	Fenhexamid	1.0947E+0	125	125	<LOQ	Phosmet	9.6150E-3	20	20	<LOQ
Benzovindiflupyr	1.2567E-2	10	10	<LOQ	Fenoxycarb	3.4507E-1	10	10	<LOQ	Piperonylbutoxide	1.3400E-7	1250	1250	<LOQ
Bifenazate	2.1700E-8	10	10	<LOQ	Fenpyroximate	4.4800E-7	20	20	<LOQ	Pirimicarb	5.6600E-5	10	10	<LOQ
Bifenthrin	8.4200E-4	1000	1000	<LOQ	Fensulfothion	7.9400E-4	10	10	<LOQ	Prallethrin	1.6732E-1	50	50	<LOQ
Boscalid	4.3300E-6	10	10	<LOQ	Fenthion	4.9113E+0	10	10	<LOQ	Propiconazole	2.1300E-14	100	100	<LOQ
Buprofezin	1.6600E-9	20	20	<LOQ	Fenvalerate	5.9775E-1	100	100	<LOQ	Propoxur	3.5081E-1	10	10	<LOQ
Carbaryl	1.3800E-5	25	25	<LOQ	Fipronil	2.8847E-2	10	10	<LOQ	Pyraclostrobin	5.3100E-7	10	10	<LOQ
Carbofuran	7.7600E-5	10	10	<LOQ	Fonicamid	6.9733E-2	25	25	<LOQ	Pyrethrins	6.2350E-3	50	50	<LOQ
Chlorantraniliprole	1.3559E-1	20	20	<LOQ	Fludioxonil	1.3402E-2	10	10	<LOQ	Pyridaben	8.7500E-15	20	20	<LOQ
Chlorfenapyr	1.5370E+1	1500	1500	<LOQ	Fluopyram	1.1200E-9	10	10	<LOQ	Pyrproxifen	9.5800E-5	10	10	<LOQ
Chlorpyrifos	9.0900E-5	500	500	<LOQ	Hexythiazox	6.1900E-5	10	10	<LOQ	Resmethrin	6.8013E-2	50	50	<LOQ
Clofentezine	3.7100E-7	10	10	<LOQ	Imazalil	2.9500E-4	10	10	<LOQ	Spinetoram	2.3645E-2	10	10	<LOQ
Clothianidin	3.9900E-4	25	25	<LOQ	Imidacloprid	1.5300E-4	10	10	<LOQ	Spinosad	5.9903E-1	10	10	<LOQ
Coumaphos	9.8600E-5	10	10	<LOQ	Iprodione	1.0554E-1	500	500	<LOQ	Spirodiclofen	3.7377E+6	250	250	<LOQ
Cyantraniliprole	6.0040E-3	10	10	<LOQ	Kinoprene	3.4000E+0	1250	1250	<LOQ	Spiromesifen	3.2183E-1	3000	3000	<LOQ
Cyfluthrin	2.8130E+1	200	200	<LOQ	Kresoxim Methyl	1.4500E-4	150	150	<LOQ	Spirotetramat	4.2760E-2	10	10	<LOQ
Cypermethrin	1.1900E-6	300	300	<LOQ	Lambda Cyhalothrin	1.1686E-1	250	250	<LOQ	Spiroxamine	1.2172E+0	100	100	<LOQ
Cyprodinil	1.1410E-3	10	10	<LOQ	Malathion	1.3300E-4	10	10	<LOQ	Tebuconazole	1.4800E-14	10	10	<LOQ
Daminozide	3.0408E-1	100	100	<LOQ	Metaxalyl	4.8600E-5	10	10	<LOQ	Tebufenozide	1.8121E-2	10	10	<LOQ
Deltamethrin	4.9284E-1	500	500	<LOQ	Methiocarb	2.2810E-3	10	10	<LOQ	Teflubenzuron	1.6620E-2	25	25	<LOQ
Diazinon	3.9100E-10	20	20	<LOQ	Methomyl	1.1500E-6	25	25	<LOQ	Tetrachlorvinphos	8.3913E-1	10	10	<LOQ
Dichlorvos	1.1406E+0	50	50	<LOQ	Methoprene	1.1485E+0	2000	2000	<LOQ	Tetramethrin	9.9200E-5	100	100	<LOQ
Dimethoate	2.8400E-6	10	10	<LOQ	methyl-Parathion	4.2400E+0	9.6	9.6	<LOQ	Thiabendazole	1.2510E-3	20	20	<LOQ
Dimethomorph	1.5700E-4	50	50	<LOQ	Mevinphos	4.4200E-5	25	25	<LOQ	Thiacloprid	1.1200E-5	10	10	<LOQ
Dinotefuran	2.3697E-1	50	50	<LOQ	MGK-264	2.5880E-3	50	50	<LOQ	Thiamethoxam	2.2500E-6	10	10	<LOQ
Diuron	6.8620E-3	125	125	<LOQ	Myclobutanil	7.0006E-1	10	10	<LOQ	Thiophanate-methyl	2.2300E-4	50	50	<LOQ
										Trifloxystrobin	2.1700E-13	10	10	<LOQ

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Potency 25 (LCUV) at Dry Weight

Specimen Weight: 1539.400 mg

Tested

SOP13.001 (LCUV)

Pieces For Panel: 30 Dilution Factor: 100.000

Analyte	Dilution (1:n)	LOD (mg/g)	LOQ (%)	Result (mg/g)	(%)	Analyte	Dilution (1:n)	LOD (mg/g)	LOQ (%)	Result (mg/g)	(%)
CBG	10.000	2.48E-4	0.0015	2.27	0.227	CBNA	10.000	9.50E-5	0.0015	<LOQ	<LOQ
THCV	10.000	7.00E-6	0.0015	1.47	0.147	CBT	10.000	2.00E-4	0.0015	<LOQ	<LOQ
Delta-9 THC	10.000	1.30E-5	0.0015	1.32	0.132	Delta-8 THC-O Acetate	10.000	2.70E-5	0.003	<LOQ	<LOQ
Delta-8 THC	10.000	4.00E-5	0.0015	0.100	0.0100	Delta-9 THC-O Acetate	10.000	7.70E-5	0.003	<LOQ	<LOQ
CBD	10.000	5.40E-5	0.0015	0.0800	0.00800	Delta8-THCP	10.000	3.75E-4	0.0015	<LOQ	<LOQ
Delta-8 THC	10.000	2.60E-5	0.0015	0.0800	0.00800	Delta9-THCP	10.000	1.17E-5	0.0012	<LOQ	<LOQ
CBC	10.000	1.80E-5	0.0015	<LOQ	<LOQ	Exo-THC	10.000	2.30E-4	0.0015	<LOQ	<LOQ
CBCA	10.000	1.07E-4	0.0015	<LOQ	<LOQ	THCA-A	10.000	3.20E-5	0.0015	<LOQ	<LOQ
CBDA	10.000	1.00E-5	0.0015	<LOQ	<LOQ	THCB	10.000	1.80E-4	0.00195	<LOQ	<LOQ
CBDV	10.000	6.50E-5	0.0015	<LOQ	<LOQ	THCH	10.000	3.50E-4	0.00195	<LOQ	<LOQ
CBDVA	10.000	1.40E-5	0.0015	<LOQ	<LOQ	THCVA	10.000	4.70E-5	0.0015	<LOQ	<LOQ
CBGA	10.000	8.00E-5	0.0015	<LOQ	<LOQ	Total Active CBD	10.000			0.0800	0.00800
CBL	10.000	3.50E-5	0.0015	<LOQ	<LOQ	Total Active THC	10.000			1.32	0.132
CBN	10.000	1.40E-5	0.0015	<LOQ	<LOQ						

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