



Certificate of Analysis

Compliance Test

Client Information:

Top Shelf Hemp Co
13720 SHORELINE CT. E
EARTH CITY, MO 63045

Manufacturing Facility:

Top Shelf Hemp Co
13720 SHORELINE CT. E
EARTH CITY, MO 63045
Production Date: 2025-10-20

Batch Data:

Batch # HRTC52020201
Batch Date: 2025-10-20
Extracted From: Hemp

Order Details:

Test Reg State: Florida

Order

TOP251023-050001
Order Date: 2025-10-23
Sample # AAHE177

Sampling Date: 2025-10-28

Lab Batch Date: 2025-10-28
Completion Date: 2025-10-31

Initial Gross Weight: 7.800 g

Net Weight per Package:
1500.000 mgNet Weight per Serving:
750 mg
Servings Per Package:
2

Product Image

Potency
TestedHHCP
TestedHeavy Metals
Passed2,3-Butanedione
PassedMycotoxins
PassedPesticides
PassedResidual Solvents
PassedMoisture
TestedWater Activity
TestedPathogenic Microbiology
PassedMicrobiology
TestedVitamin E
PassedFiltration and Foreign
Passed

Potency Summary

Total HHC	3.23%	Delta 9 THC	<LOQ
per Serving	24.2 mg	per Serving	0.00 mg
per Package	48.5 mg	per Package	0.00 mg
Total Active CBD	0.199%	Total CBG	4.71%
per Serving	1.49 mg	per Serving	35.4 mg
per Package	2.99 mg	per Package	70.7 mg
Total CBN	0.206%	Total Cannabinoids	23.7%
per Serving	1.55 mg	per Serving	178 mg
per Package	3.09 mg	per Package	356 mg
Total Active THC	0.165%	Total DELTA-8-THC	10.5%
per Serving	1.24 mg	per Serving	79.1 mg
per Package	2.48 mg	per Package	158 mg

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 Client supplied the net weight of mg The results apply to the sample as received.

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Potency(GA)+THCP

Specimen Weight: 209.760 mg

Tested

SOP13.001 (LCUV)

Analyte	LOD (mg/g)	LOQ (%)	Result (mg/g)	(%)	Per Serving (mg)	Per Package (mg)
Delta-8 THC	0.000026	0.0125	105	10.5	79.1	158
CBGA	0.00008	0.0125	50.8	5.08	38.1	76.1
Delta9-THCP	0.0000117	0.01	38.4	3.84	28.8	57.5
CBG	0.000248	0.0125	2.57	0.257	1.93	3.86
CBN	0.000014	0.0125	2.06	0.206	1.55	3.09
THCA-A	0.000032	0.0125	1.88	0.188	1.41	2.82
CBDA	0.00001	0.0125	1.86	0.186	1.40	2.79
Delta8-THCP	0.000375	0.0125	0.400	0.0400	0.300	0.600
CBD	0.0000540	0.0125	0.360	0.0360	0.270	0.540
Delta-10 THC	0.000003	0.0125	<LOQ	<LOQ	0.00	0.00
Delta-9 THC	0.000013	0.0125	<LOQ	<LOQ	0.00	0.00
Delta-9 THC-O Acetate	0.000077	0.025	<LOQ	<LOQ	0.00	0.00
Exo-THC	0.00023	0.0125	<LOQ	<LOQ	0.00	0.00
Total Active THC			1.65	0.165	1.24	2.47
Total Active CBD			1.99	0.199	1.49	2.99

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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2,3-butanedione(Diacetyl) Florida

Specimen Weight: 15.100 mg

Passed

SOP13.039 (GCMS-HS)

Dilution Factor: 1.000

Analyte	LOD (ppm)	LOQ (ppm)	Result (ppm)
2,3-Butanedione	0.000	0.2	<LOQ



Moisture

Specimen Weight: N/A

Tested

SOP13.015 (Moisture Meter)

Analyte	Action Level (%)	Result (%)
Moisture	15	6.57



Water Activity Florida

Specimen Weight: 0.500 g

Tested

SOP13.016 (Water Activity Analyzer)

Dilution Factor: 1.000

Analyte	Acceptable Range (aw)	Result (aw)
Water Activity	.55 - .65	0.418



Microbiology AC TYM BTGN plating - (GA)

Specimen Weight: 996.700 mg

Tested

SOP13.003 (Petrifilm)

Dilution Factor: 1.000

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				

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Filth and Foreign Material

Specimen Weight: N/A Dilution Factor: 1.000

Passed

SOP13.020 (Electronic Balance)			SOP13.020 (Electronic Balance)		
Analyte	Action Level (%)	Result (%)	Analyte	Action Level (%)	Result (%)
Covered Area	10	0.00	Weight %	1	0.00
Feces	0.5	0.00			



Pathogenic Microbiology SAE (MicroArray)

Specimen Weight: 1000.800 mg

Passed

SOP13.019 (Micro Array)			SOP13.019 (Micro Array)		
Analyte	Result (cfu/g)	Analyte	Result (cfu/g)	Analyte	Result (cfu/g)
Aspergillus flavus	Absence in 1g	E.Coli	Absence in 1g		
Aspergillus fumigatus	Absence in 1g	Salmonella	Absence in 1g		
Aspergillus niger	Absence in 1g	STEC E. Coli	Absence in 1g		
Aspergillus terreus	Absence in 1g				

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Vitamin E (Tocopheryl Acetate)

Specimen Weight: 607.700 mg

Passed

SOP13.007 (LCMS/GCMS)

Dilution Factor: 2.470

Analyte	LOD (ppb)	LOQ (ppb)	Action Level (ppb)	Result (ppb)
Tocopheryl Acetate (Vitamin E Acetate)	0.705	500	500	<LOQ



Heavy Metals Florida

Specimen Weight: 250.400 mg

Passed

SOP13.048 (ICP-MS)

Dilution Factor: 199.681

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	200	146	Lead (Pb)	0.007	100	500	178
Cadmium (Cd)	0.003	100	200	165	Mercury (Hg)	0.016	100	200	<LOQ



Mycotoxins FL

Specimen Weight: 607.700 mg

Passed

SOP13.007 (LCMS/GCMS)

Dilution Factor: 2.470

Analyte	LOD (ppb)	LOQ (ppb)	Action Level (ppb)	Result (ppb)	Analyte	LOD (ppb)	LOQ (ppb)	Action Level (ppb)	Result (ppb)
Aflatoxin B1	0.304	4.9	20	<LOQ	Aflatoxin G2	0.271	4.9	20	<LOQ
Aflatoxin B2	0.077	4.9	20	<LOQ	Ochratoxin A	0.754	9.8	20	<LOQ
Aflatoxin G1	0.304	4.9	20	<LOQ					

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750 mg
Servings Per Package:
2

HHCP

HHCP

Specimen Weight: 209.760 mg

Tested
SOP13.050 (LCMS)

Dilution Factor: 7500.000

Analyte	LOD (%)	LOQ (%)	Result (mg/g)	(%) Analyte	LOD (%)	LOQ (%)	Result (mg/g)	(%)
(9R)-HHC	0.000	0.075	23.5	2.35 9(S)-HHCP	0.000	0.075	<LOQ	<LOQ
(9S)-HHC	0.000	0.075	8.82	0.882 CBC	0.000	0.075	1.39	0.139
(±)-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	0.075	<LOQ	<LOQ Total HHC		0.075	32.3	3.232



Residual Solvents - FL (CBD)

Specimen Weight: 15.100 mg

Passed
SOP13.039 (GCMS-MS)

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	27.0	Isopropyl alcohol	0.005	13.9	500	<LOQ
Acetonitrile	0.060	11.7	60	<LOQ	Methanol	0.001	6.9	250	16.1
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	44.9	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

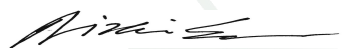
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SOP13.007 (LCMS/GCMS)

Dilution Factor: 2.470

Analyte	LOD (ppb)	LOQ (ppb)	Action Level (ppb)	Result (ppb)	Analyte	LOD (ppb)	LOQ (ppb)	Action Level (ppb)	Result (ppb)
Abamectin	0.399	23.3	100	<LOQ	Fludioxonil	0.360	24.8	100	<LOQ
Acephate	0.141	24.8	100	<LOQ	Hexythiazox	0.113	24.8	100	<LOQ
Acequinocyl	2.178	24.8	100	<LOQ	Imazalil	0.258	24.8	100	<LOQ
Acetamiprid	0.140	24.8	100	<LOQ	Imidacloprid	0.402	24.8	400	<LOQ
Aldicarb	0.203	24.8	100	<LOQ	Kresoxim Methyl	0.182	24.8	100	<LOQ
Azoxystrobin	0.188	24.8	100	<LOQ	Malathion	0.223	24.8	200	<LOQ
Bifenazate	0.086	24.8	100	<LOQ	Metalaxyl	0.270	24.8	100	<LOQ
Bifenthrin	0.100	24.8	100	<LOQ	Methiocarb	0.118	24.8	100	<LOQ
Boscalid	0.595	24.8	100	<LOQ	Methomyl	0.064	24.8	100	<LOQ
Captan	1.850	323	700	<LOQ	methyl-Parathion	2.390	24.8	100	<LOQ
Carbaryl	0.122	24.8	500	<LOQ	Mevinphos	0.093	24.8	100	<LOQ
Carbofuran	0.086	24.8	100	<LOQ	Myclobutanil	0.573	24.8	24.8	<LOQ
Chlorantraniliprole	0.084	24.8	1000	<LOQ	Naled	0.069	24.8	250	<LOQ
Chlordane	9.671	24.8	100	<LOQ	Oxamyl	0.041	24.8	500	<LOQ
Chlorfenapyr	1.500	24.8	100	<LOQ	Paclobutrazol	0.186	24.8	100	<LOQ
Chlormequat Chloride	0.205	24.8	1000	<LOQ	Pentachloronitrobenzene	7.950	24.8	150	<LOQ
Chlorpyrifos	0.109	24.8	100	<LOQ	Permethrin	0.624	24.8	100	<LOQ
Clofentezine	0.212	24.8	200	<LOQ	Phosmet	0.127	24.8	100	<LOQ
Coumaphos	0.206	24.8	100	<LOQ	Piperonylbutoxide	0.149	24.8	3000	<LOQ
Cyfluthrin	0.980	24.8	500	<LOQ	Prallethrin	1.476	24.8	100	<LOQ
Cypermethrin	0.985	24.8	500	<LOQ	Propiconazole	0.294	24.8	100	<LOQ
Daminozide	1.655	24.8	100	<LOQ	Propoxur	0.100	24.8	100	<LOQ
Diazinon	0.212	24.8	100	<LOQ	Pyrethrins	0.067	12.9	500	<LOQ
Dichlorvos	1.130	24.8	100	<LOQ	Pyridaben	0.140	24.8	200	<LOQ
Dimethoate	0.063	24.8	100	<LOQ	Spinetoram	0.424	24.8	200	<LOQ
Dimethomorph	2.581	24.8	200	<LOQ	Spinosad	0.028	24.8	100	<LOQ
Ethoprophos	0.151	24.8	100	<LOQ	Spiromesifen	0.120	24.8	100	<LOQ
Etofenprox	0.172	24.8	100	<LOQ	Spirotetramat	0.211	24.8	100	<LOQ
Etoxazole	0.866	24.8	100	<LOQ	Spiroxamine	0.533	24.8	100	<LOQ
Fenhexamid	0.588	24.8	100	<LOQ	Tebuconazole	0.230	24.8	100	<LOQ
Fenoxycarb	0.274	24.8	100	<LOQ	Thiacloprid	0.170	24.8	100	<LOQ
Fenpyroximate	0.198	24.8	100	<LOQ	Thiamethoxam	0.179	24.8	500	<LOQ
Fipronil	0.317	24.8	100	<LOQ	Trifloxystrobin	0.134	24.8	100	<LOQ
Flonicamid	0.466	24.8	100	<LOQ					


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Sample # AAHE174

Sampling Date:

2025-10-28
Lab Batch Date: 2025-10-28
Completion Date: 2025-10-30

Initial Gross Weight:

7.400 g

Net Weight per Package:

1500.000 mg

Net Weight per Serving:

1500 mg
Servings Per Package:
1



Product Image



Potency
Tested



HHCP
Tested



Heavy Metals
Passed



2,3-Butanedione
Passed



Mycotoxins
Passed



Pesticides
Passed



Residual Solvents
Passed



Moisture
Tested



Water Activity
Tested



Pathogenic Microbiology
Passed



Microbiology
Tested



Vitamin E
Passed

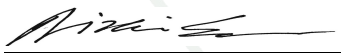


Filth and Foreign
Passed



Potency Summary

Total HHC	3.06%	Delta 9 THC	<LOQ
per Serving	45.9 mg	per Serving	0.00 mg
per Package	45.9 mg	per Package	0.00 mg
Total Active CBD	0.192%	Total CBG	4.63%
per Serving	2.88 mg	per Serving	69.4 mg
per Package	2.88 mg	per Package	69.4 mg
Total CBN	0.219%	Total Cannabinoids	24.2%
per Serving	3.29 mg	per Serving	364 mg
per Package	3.29 mg	per Package	364 mg
Total Active THC	0.171%	Total DELTA-8-THC	10.4%
per Serving	2.57 mg	per Serving	156 mg
per Package	2.57 mg	per Package	156 mg


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 Client supplied the net weight of mg The results apply to the sample as received.

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Certificate of Analysis

Compliance Test

Client Information:

Top Shelf Hemp Co
13720 SHORELINE CT. E
EARTH CITY, MO 63045

Manufacturing Facility:

Top Shelf Hemp Co
13720 SHORELINE CT. E
EARTH CITY, MO 63045
Production Date: 2025-10-20

Batch Data:

Batch # HRMW52020201
Batch Date: 2025-10-20
Extracted From: Hemp

Order Details:

Test Reg State: Florida

Order

TOP251023-050001
Order Date: 2025-10-23
Sample # AAHE174

Sampling Date:

2025-10-28
Lab Batch Date: 2025-10-28
Completion Date: 2025-10-30

Initial Gross Weight:

7.400 g

Net Weight per Package:

1500.000 mg

Net Weight per Serving:

1500 mg
Servings Per Package:
1



Potency(GA)+THCP

Specimen Weight: 203.120 mg

Tested

SOP13.001 (LCUV)

Analyte	LOD (mg/g)	LOQ (%)	Result (mg/g)	(%)	Per Serving (mg)	Per Package (mg)
Delta-8 THC	0.000026	0.0125	104	10.4	156	156
CBGA	0.00008	0.0125	49.7	4.97	74.5	74.5
Delta9-THCP	0.0000117	0.01	47.3	4.73	70.9	70.9
CBG	0.000248	0.0125	2.65	0.265	3.98	3.98
CBN	0.000014	0.0125	2.19	0.219	3.29	3.29
THCA-A	0.000032	0.0125	1.95	0.195	2.93	2.93
CBDA	0.00001	0.0125	1.77	0.177	2.66	2.66
Delta8-THCP	0.000375	0.0125	0.410	0.0410	0.615	0.615
CBD	0.0000540	0.0125	0.370	0.0370	0.555	0.555
Delta-10 THC	0.000003	0.0125	<LOQ	<LOQ	0.00	0.00
Delta-9 THC	0.000013	0.0125	<LOQ	<LOQ	0.00	0.00
Delta-9 THC-O Acetate	0.000077	0.025	<LOQ	<LOQ	0.00	0.00
Exo-THC	0.00023	0.0125	<LOQ	<LOQ	0.00	0.00
Total Active THC			1.71	0.171	2.57	2.57
Total Active CBD			1.92	0.192	2.88	2.88

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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EARTH CITY, MO 63045
Production Date: 2025-10-20

Batch Data:

Batch # HRMW52020201
Batch Date: 2025-10-20
Extracted From: Hemp

Order Details:

Test Reg State: Florida

Order

TOP251023-050001
Order Date: 2025-10-23
Sample # AAHE174

Sampling Date:

2025-10-28
Lab Batch Date: 2025-10-28
Completion Date: 2025-10-30

Initial Gross Weight:

7.400 g

Net Weight per Package:

1500.000 mg

Net Weight per Serving:

1500 mg
Servings Per Package:
1



2,3-butanedione(Diacetyl) Florida

Specimen Weight: 16.800 mg

Passed

SOP13.039 (GCMS-HS)

Dilution Factor: 1.000

Analyte	LOD (ppm)	LOQ (ppm)	Result (ppm)
2,3-Butanedione	0.000	0.2	<LOQ



Moisture

Specimen Weight: N/A

Tested

SOP13.015 (Moisture Meter)

Analyte	Action Level (%)	Result (%)
Moisture	15	6.91



Water Activity Florida

Specimen Weight: 0.500 g

Tested

SOP13.016 (Water Activity Analyzer)

Dilution Factor: 1.000

Analyte	Acceptable Range (aw)	Result (aw)
Water Activity	.55 - .65	0.415



Microbiology AC TYM BTGN plating - (GA)

Specimen Weight: 1003.900 mg

Tested

SOP13.003 (Petrifilm)

Dilution Factor: 1.000

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				

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Completion Date: 2025-10-30

Initial Gross Weight: 7.400 g

Net Weight per Package:
1500.000 mg

Net Weight per Serving:
1500 mg
Servings Per Package:
1



Filth and Foreign Material

Specimen Weight: N/A Dilution Factor: 1.000

Passed

SOP13.020 (Electronic Balance)			SOP13.020 (Electronic Balance)		
Analyte	Action Level (%)	Result (%)	Analyte	Action Level (%)	Result (%)
Covered Area	10	0.00	Weight %	1	0.00
Feces	0.5	0.00			



Pathogenic Microbiology SAE (MicroArray)

Specimen Weight: 1013.200 mg

Passed

SOP13.019 (Micro Array)

Dilution Factor: 1.000

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

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2025-10-28
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Initial Gross Weight:

7.400 g

Net Weight per Package:

1500.000 mg

Net Weight per Serving:

1500 mg
Servings Per Package:
1



Vitamin E (Tocopheryl Acetate)

Specimen Weight: 597.900 mg

Passed

SOP13.007 (LCMS/GCMS)

Dilution Factor: 2.510

Analyte	LOD (ppb)	LOQ (ppb)	Action Level (ppb)	Result (ppb)
Tocopheryl Acetate (Vitamin E Acetate)	0.705	500	500	<LOQ



Heavy Metals Florida

Specimen Weight: 253.100 mg

Passed

SOP13.048 (ICP-MS)

Dilution Factor: 197.550

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	200	142	Lead (Pb)	0.007	100	500	178
Cadmium (Cd)	0.003	100	200	154	Mercury (Hg)	0.016	100	200	<LOQ



Mycotoxins FL

Specimen Weight: 597.900 mg

Passed

SOP13.007 (LCMS/GCMS)

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	0.304	4.9	20	<LOQ	Aflatoxin G2	0.271	4.9	20	<LOQ
Aflatoxin B2	0.077	4.9	20	<LOQ	Ochratoxin A	0.754	9.8	20	<LOQ
Aflatoxin G1	0.304	4.9	20	<LOQ					

Aixia Sun

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



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13720 SHORELINE CT. E
EARTH CITY, MO 63045
Production Date: 2025-10-20

Batch Data:

Batch # HRMW52020201
Batch Date: 2025-10-20
Extracted From: Hemp

Order Details:

Test Reg State: Florida

Order #

TOP251023-050001
Order Date: 2025-10-23
Sample # AAHE174

Sampling Date: 2025-10-28

Lab Batch Date: 2025-10-28
Completion Date: 2025-10-30

Initial Gross Weight: 7.400 g

Net Weight per Package:
1500.000 mg

Net Weight per Serving:
1500 mg
Servings Per Package:
1

HHCP

Specimen Weight: 203.120 mg

Dilution Factor: 7500.000

Tested
SOP13.050 (LCMS)

Analyte	LOD (%)	LOQ (%)	Result (mg/g)	(%)	Analyte	LOD (%)	LOQ (%)	Result (mg/g)	(%)
(9R)-HHC	0.000	0.075	22.0	2.2	9(S)-HHCP	0.000	0.075	<LOQ	<LOQ
(9S)-HHC	0.000	0.075	8.61	0.861	CBC	0.000	0.075	1.32	0.132
(±)-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	0.075	<LOQ	<LOQ	Total HHC	0.075	0.075	30.6	3.061



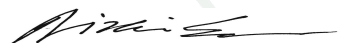
Residual Solvents - FL (CBD)

Specimen Weight: 16.800 mg

Dilution Factor: 1.000

Passed
SOP13.039 (GCMS-MS)

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	24.2	Isopropyl alcohol	0.005	13.9	500	<LOQ
Acetonitrile	0.060	11.7	60	<LOQ	Methanol	0.001	6.9	250	17.5
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	40.2	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					



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



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EARTH CITY, MO 63045

Manufacturing Facility:

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13720 SHORELINE CT. E
EARTH CITY, MO 63045
Production Date: 2025-10-20

Batch Data:

Batch # HRMW52020201
Batch Date: 2025-10-20
Extracted From: Hemp

Order Details:

Test Reg State: Florida

Order #

TOP251023-050001
Order Date: 2025-10-23
Sample # AAHE174

Sampling Date: 2025-10-28

Lab Batch Date: 2025-10-28
Completion Date: 2025-10-30

Initial Gross Weight: 7.400 g

Net Weight per Package:
1500.000 mg

Net Weight per Serving:

1500 mg
Servings Per Package:
1



Pesticides Florida

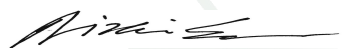
Specimen Weight: 597.900 mg

Passed

SOP13.007 (LCMS/GCMS)

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	0.399	23.3	100	<LOQ	Fludioxonil	0.360	24.8	100	<LOQ
Acephate	0.141	24.8	100	<LOQ	Hexythiazox	0.113	24.8	100	<LOQ
Acequinocyl	2.178	24.8	100	<LOQ	Imazalil	0.258	24.8	100	<LOQ
Acetamiprid	0.140	24.8	100	<LOQ	Imidacloprid	0.402	24.8	400	<LOQ
Aldicarb	0.203	24.8	100	<LOQ	Kresoxim Methyl	0.182	24.8	100	<LOQ
Azoxystrobin	0.188	24.8	100	<LOQ	Malathion	0.223	24.8	200	<LOQ
Bifenazate	0.086	24.8	100	<LOQ	Metalaxyl	0.270	24.8	100	<LOQ
Bifenthrin	0.100	24.8	100	<LOQ	Methiocarb	0.118	24.8	100	<LOQ
Boscalid	0.595	24.8	100	<LOQ	Methomyl	0.064	24.8	100	<LOQ
Captan	1.850	323	700	<LOQ	methyl-Parathion	2.390	24.8	100	<LOQ
Carbaryl	0.122	24.8	500	<LOQ	Mevinphos	0.093	24.8	100	<LOQ
Carbofuran	0.086	24.8	100	<LOQ	Myclobutanil	0.573	24.8	24.8	<LOQ
Chlorantraniliprole	0.084	24.8	1000	<LOQ	Naled	0.069	24.8	250	<LOQ
Chlordane	9.671	24.8	100	<LOQ	Oxamyl	0.041	24.8	500	<LOQ
Chlorfenapyr	1.500	24.8	100	<LOQ	Paclobutrazol	0.186	24.8	100	<LOQ
Chlormequat Chloride	0.205	24.8	1000	<LOQ	Pentachloronitrobenzene	7.950	24.8	150	<LOQ
Chlorpyrifos	0.109	24.8	100	<LOQ	Permethrin	0.624	24.8	100	<LOQ
Clofentezine	0.212	24.8	200	<LOQ	Phosmet	0.127	24.8	100	<LOQ
Coumaphos	0.206	24.8	100	<LOQ	Piperonylbutoxide	0.149	24.8	3000	<LOQ
Cyfluthrin	0.980	24.8	500	<LOQ	Prallethrin	1.476	24.8	100	<LOQ
Cypermethrin	0.985	24.8	500	<LOQ	Propiconazole	0.294	24.8	100	<LOQ
Daminozide	1.655	24.8	100	<LOQ	Propoxur	0.100	24.8	100	<LOQ
Diazinon	0.212	24.8	100	<LOQ	Pyrethrins	0.067	12.9	500	<LOQ
Dichlorvos	1.130	24.8	100	<LOQ	Pyridaben	0.140	24.8	200	<LOQ
Dimethoate	0.063	24.8	100	<LOQ	Spinetoram	0.424	24.8	200	<LOQ
Dimethomorph	2.581	24.8	200	<LOQ	Spinosad	0.028	24.8	100	<LOQ
Ethoprophos	0.151	24.8	100	<LOQ	Spiromesifen	0.120	24.8	100	<LOQ
Etofenprox	0.172	24.8	100	<LOQ	Spirotetramat	0.211	24.8	100	<LOQ
Etoxazole	0.866	24.8	100	<LOQ	Spiroxamine	0.533	24.8	100	<LOQ
Fenhexamid	0.588	24.8	100	<LOQ	Tebuconazole	0.230	24.8	100	<LOQ
Fenoxycarb	0.274	24.8	100	<LOQ	Thiacloprid	0.170	24.8	100	<LOQ
Fenpyroximate	0.198	24.8	100	<LOQ	Thiamethoxam	0.179	24.8	500	<LOQ
Fipronil	0.317	24.8	100	<LOQ	Trifloxystrobin	0.134	24.8	100	<LOQ
Flonicamid	0.466	24.8	100	<LOQ					


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Production Date: 2025-10-20

Batch Data:

Batch # HRGP52020201
Batch Date: 2025-10-20
Extracted From: Hemp

Order Details:

Test Reg State: Florida

Order

TOP251023-050001
Order Date: 2025-10-23
Sample # AAHE176

Sampling Date: 2025-10-28

Lab Batch Date: 2025-10-28
Completion Date: 2025-10-31

Initial Gross Weight: 7.300 g

Net Weight per Package:
1500.000 mgNet Weight per Serving:
750 mg
Servings Per Package:
2

Product Image

Potency
TestedHHCP
TestedHeavy Metals
Passed2-Butanedione
PassedMycotoxins
PassedPesticides
PassedResidual Solvents
PassedMoisture
TestedWater Activity
TestedPathogenic Microbiology
PassedMicrobiology
TestedVitamin E
PassedFiltration and Foreign
Passed

Potency Summary

Total HHC	3.31%	Delta 9 THC	<LOQ
per Serving	24.8 mg	per Serving	0.00 mg
per Package	49.7 mg	per Package	0.00 mg
Total Active CBD	0.191%	Total CBG	4.51%
per Serving	1.43 mg	per Serving	33.8 mg
per Package	2.86 mg	per Package	67.6 mg
Total CBN	0.218%	Total Cannabinoids	25.3%
per Serving	1.64 mg	per Serving	189 mg
per Package	3.27 mg	per Package	379 mg
Total Active THC	0.167%	Total DELTA-8-THC	10.6%
per Serving	1.25 mg	per Serving	79.2 mg
per Package	2.51 mg	per Package	158 mg

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 Client supplied the net weight of mg The results apply to the sample as received.

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Certificate of Analysis

Compliance Test

Client Information:

Top Shelf Hemp Co
13720 SHORELINE CT. E
EARTH CITY, MO 63045

Manufacturing Facility:

Top Shelf Hemp Co
13720 SHORELINE CT. E
EARTH CITY, MO 63045
Production Date: 2025-10-20

Batch Data:

Batch # HRGP52020201
Batch Date: 2025-10-20
Extracted From: Hemp

Order Details:

Test Reg State: Florida

Order

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Order Date: 2025-10-23
Sample # AAHE176

Sampling Date:

2025-10-28
Lab Batch Date: 2025-10-28
Completion Date: 2025-10-31

Initial Gross Weight:

7.300 g

Net Weight per Package:

1500.000 mg

Net Weight per Serving:

750 mg
Servings Per Package:
2



Potency(GA)+THCP

Specimen Weight: 209.540 mg

Tested

SOP13.001 (LCUV)

Analyte	LOD (mg/g)	LOQ (%)	Result (mg/g)	(%)	Per Serving (mg)	Per Package (mg)
Delta-8 THC	0.000026	0.0125	106	10.6	79.2	158
Delta-9-THCP	0.0000117	0.01	54.7	5.47	41.0	82.0
CBGA	0.00008	0.0125	48.4	4.84	36.3	72.6
CBG	0.000248	0.0125	2.58	0.258	1.94	3.87
CBN	0.000014	0.0125	2.18	0.218	1.64	3.27
THCA-A	0.000032	0.0125	1.90	0.190	1.43	2.85
CBDA	0.00001	0.0125	1.73	0.173	1.30	2.60
Delta-8-THCP	0.000375	0.0125	0.570	0.0570	0.428	0.855
CBD	0.0000540	0.0125	0.390	0.0390	0.293	0.585
Delta-10 THC	0.000003	0.0125	<LOQ	<LOQ	0.00	0.00
Delta-9 THC	0.000013	0.0125	<LOQ	<LOQ	0.00	0.00
Delta-9 THC-O Acetate	0.000077	0.025	<LOQ	<LOQ	0.00	0.00
Exo-THC	0.00023	0.0125	<LOQ	<LOQ	0.00	0.00
Total Active THC			1.67	0.167	1.25	2.50
Total Active CBD			1.91	0.191	1.43	2.86

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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13720 SHORELINE CT. E
EARTH CITY, MO 63045

Manufacturing Facility:

Top Shelf Hemp Co
13720 SHORELINE CT. E
EARTH CITY, MO 63045
Production Date: 2025-10-20

Batch Data:

Batch # HRGP52020201
Batch Date: 2025-10-20
Extracted From: Hemp

Order Details:

Test Reg State: Florida

Order

TOP251023-050001
Order Date: 2025-10-23
Sample # AAHE176

Sampling Date:

2025-10-28
Lab Batch Date: 2025-10-28
Completion Date: 2025-10-31

Initial Gross Weight:

7.300 g

Net Weight per Package:

1500.000 mg

Net Weight per Serving:

750 mg
Servings Per Package:
2



2,3-butanedione(Diacetyl) Florida

Specimen Weight: 17.500 mg

Passed

SOP13.039 (GCMS-HS)

Dilution Factor: 1.000

Analyte	LOD (ppm)	LOQ (ppm)	Result (ppm)
2,3-Butanedione	0.000	0.2	<LOQ



Moisture

Specimen Weight: N/A

Tested

SOP13.015 (Moisture Meter)

Analyte	Action Level (%)	Result (%)
Moisture	15	6.23



Water Activity Florida

Specimen Weight: 0.500 g

Tested

SOP13.016 (Water Activity Analyzer)

Dilution Factor: 1.000

Analyte	Acceptable Range (aw)	Result (aw)
Water Activity	.55 - .65	0.404



Microbiology AC TYM BTGN plating - (GA)

Specimen Weight: 992.600 mg

Tested

SOP13.003 (Petrifilm)

Dilution Factor: 1.000

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	3000				

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Initial Gross Weight: 7.300 g

Net Weight per Package:
1500.000 mg

Net Weight per Serving:
750 mg
Servings Per Package:
2



Filth and Foreign Material

Specimen Weight: N/A Dilution Factor: 1.000

Passed

SOP13.020 (Electronic Balance)			SOP13.020 (Electronic Balance)		
Analyte	Action Level (%)	Result (%)	Analyte	Action Level (%)	Result (%)
Covered Area	10	0.00	Weight %	1	0.00
Feces	0.5	0.00			



Pathogenic Microbiology SAE (MicroArray)

Specimen Weight: 1042.800 mg

Passed

SOP13.019 (Micro Array)

Dilution Factor: 1.000			
Analyte	Result (cfu/g)	Analyte	Result (cfu/g)
Aspergillus flavus	Absence in 1g	E.Coli	Absence in 1g
Aspergillus fumigatus	Absence in 1g	Salmonella	Absence in 1g
Aspergillus niger	Absence in 1g	STEC E. Coli	Absence in 1g
Aspergillus terreus	Absence in 1g		

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Sample # AAHE176

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Lab Batch Date: 2025-10-28
Completion Date: 2025-10-31

Initial Gross Weight:

7.300 g

Net Weight per Package:

1500.000 mg

Net Weight per Serving:

750 mg
Servings Per Package:
2



Vitamin E (Tocopheryl Acetate)

Specimen Weight: 595.100 mg

Passed

SOP13.007 (LCMS/GCMS)

Dilution Factor: 2.520

Analyte	LOD (ppb)	LOQ (ppb)	Action Level (ppb)	Result (ppb)
Tocopheryl Acetate (Vitamin E Acetate)	0.705	500	500	<LOQ



Heavy Metals Florida

Specimen Weight: 248.500 mg

Passed

SOP13.048 (ICP-MS)

Dilution Factor: 201.207

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	200	141	Lead (Pb)	0.007	100	500	174
Cadmium (Cd)	0.003	100	200	168	Mercury (Hg)	0.016	100	200	<LOQ



Mycotoxins FL

Specimen Weight: 595.100 mg

Passed

SOP13.007 (LCMS/GCMS)

Dilution Factor: 2.520

Analyte	LOD (ppb)	LOQ (ppb)	Action Level (ppb)	Result (ppb)	Analyte	LOD (ppb)	LOQ (ppb)	Action Level (ppb)	Result (ppb)
Aflatoxin B1	0.304	4.9	20	<LOQ	Aflatoxin G2	0.271	4.9	20	<LOQ
Aflatoxin B2	0.077	4.9	20	<LOQ	Ochratoxin A	0.754	9.8	20	<LOQ
Aflatoxin G1	0.304	4.9	20	<LOQ					

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



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EARTH CITY, MO 63045

Manufacturing Facility:

Top Shelf Hemp Co
13720 SHORELINE CT. E
EARTH CITY, MO 63045
Production Date: 2025-10-20

Batch Data:

Batch # HRGP52020201
Batch Date: 2025-10-20
Extracted From: Hemp

Order Details:

Test Reg State: Florida

Order #

TOP251023-050001
Order Date: 2025-10-23
Sample # AAHE176

Sampling Date: 2025-10-28

Lab Batch Date: 2025-10-28
Completion Date: 2025-10-31

Initial Gross Weight: 7.300 g

Net Weight per Package:

1500.000 mg

Net Weight per Serving:

750 mg
Servings Per Package:
2

HHCP

HHCP

Specimen Weight: 209.540 mg

Dilution Factor: 7500.000

Tested
SOP13.050 (LCMS)

Analyte	LOD (%)	LOQ (%)	Result (mg/g)	(%) Analyte	LOD (%)	LOQ (%)	Result (mg/g)	(%)
(9R)-HHC	0.000	0.075	24.2	2.42 9(S)-HHCP	0.000	0.075	<LOQ	<LOQ
(9S)-HHC	0.000	0.075	8.92	0.892 CBC	0.000	0.075	1.32	0.132
(±)-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	0.075	<LOQ	<LOQ Total HHC		0.075	33.1	3.312



Residual Solvents - FL (CBD)

Specimen Weight: 17.500 mg

Dilution Factor: 1.000

Passed
SOP13.039 (GCMS-MS)

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	25.6	Isopropyl alcohol	0.005	13.9	500	<LOQ
Acetonitrile	0.060	11.7	60	<LOQ	Methanol	0.001	6.9	250	17.9
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	48.8	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

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



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13720 SHORELINE CT. E
EARTH CITY, MO 63045

Manufacturing Facility:

Top Shelf Hemp Co
13720 SHORELINE CT. E
EARTH CITY, MO 63045
Production Date: 2025-10-20

Batch Data:

Batch # HRGP52020201
Batch Date: 2025-10-20
Extracted From: Hemp

Order Details:

Test Reg State: Florida

Order #

TOP251023-050001
Order Date: 2025-10-23
Sample # AAHE176

Sampling Date: 2025-10-28

Lab Batch Date: 2025-10-28
Completion Date: 2025-10-31

Initial Gross Weight: 7.300 g

Net Weight per Package:
1500.000 mg

Net Weight per Serving:
750 mg
Servings Per Package:
2

Pesticides Florida

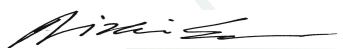
Specimen Weight: 595.100 mg

Passed

SOP13.007 (LCMS/GCMS)

Dilution Factor: 2.520

Analyte	LOD (ppb)	LOQ (ppb)	Action Level (ppb)	Result (ppb)	Analyte	LOD (ppb)	LOQ (ppb)	Action Level (ppb)	Result (ppb)
Abamectin	0.399	23.3	100	<LOQ	Fludioxonil	0.360	24.8	100	<LOQ
Acephate	0.141	24.8	100	<LOQ	Hexythiazox	0.113	24.8	100	<LOQ
Acequinocyl	2.178	24.8	100	<LOQ	Imazalil	0.258	24.8	100	<LOQ
Acetamiprid	0.140	24.8	100	<LOQ	Imidacloprid	0.402	24.8	400	<LOQ
Aldicarb	0.203	24.8	100	<LOQ	Kresoxim Methyl	0.182	24.8	100	<LOQ
Azoxystrobin	0.188	24.8	100	<LOQ	Malathion	0.223	24.8	200	<LOQ
Bifenazate	0.086	24.8	100	<LOQ	Metalaxyl	0.270	24.8	100	<LOQ
Bifenthrin	0.100	24.8	100	<LOQ	Methiocarb	0.118	24.8	100	<LOQ
Boscalid	0.595	24.8	100	<LOQ	Methomyl	0.064	24.8	100	<LOQ
Captan	1.850	323	700	<LOQ	methyl-Parathion	2.390	24.8	100	<LOQ
Carbaryl	0.122	24.8	500	<LOQ	Mevinphos	0.093	24.8	100	<LOQ
Carbofuran	0.086	24.8	100	<LOQ	Myclobutanil	0.573	24.8	24.8	<LOQ
Chlorantraniliprole	0.084	24.8	1000	<LOQ	Naled	0.069	24.8	250	<LOQ
Chlordane	9.671	24.8	100	<LOQ	Oxamyl	0.041	24.8	500	<LOQ
Chlorfenapyr	1.500	24.8	100	<LOQ	Paclobutrazol	0.186	24.8	100	<LOQ
Chlormequat Chloride	0.205	24.8	1000	<LOQ	Pentachloronitrobenzene	7.950	24.8	150	<LOQ
Chlorpyrifos	0.109	24.8	100	<LOQ	Permethrin	0.624	24.8	100	<LOQ
Clofentezine	0.212	24.8	200	<LOQ	Phosmet	0.127	24.8	100	<LOQ
Coumaphos	0.206	24.8	100	<LOQ	Piperonylbutoxide	0.149	24.8	3000	<LOQ
Cyfluthrin	0.980	24.8	500	<LOQ	Prallethrin	1.476	24.8	100	<LOQ
Cypermethrin	0.985	24.8	500	<LOQ	Propiconazole	0.294	24.8	100	<LOQ
Daminozide	1.655	24.8	100	<LOQ	Propoxur	0.100	24.8	100	<LOQ
Diazinon	0.212	24.8	100	<LOQ	Pyrethrins	0.067	12.9	500	<LOQ
Dichlorvos	1.130	24.8	100	<LOQ	Pyridaben	0.140	24.8	200	<LOQ
Dimethoate	0.063	24.8	100	<LOQ	Spinetoram	0.424	24.8	200	<LOQ
Dimethomorph	2.581	24.8	200	<LOQ	Spinosad	0.028	24.8	100	<LOQ
Ethoprophos	0.151	24.8	100	<LOQ	Spiromesifen	0.120	24.8	100	<LOQ
Etofenprox	0.172	24.8	100	<LOQ	Spirotetramat	0.211	24.8	100	<LOQ
Etoxazole	0.866	24.8	100	<LOQ	Spiroxamine	0.533	24.8	100	<LOQ
Fenhexamid	0.588	24.8	100	<LOQ	Tebuconazole	0.230	24.8	100	<LOQ
Fenoxycarb	0.274	24.8	100	<LOQ	Thiacloprid	0.170	24.8	100	<LOQ
Fenpyroximate	0.198	24.8	100	<LOQ	Thiamethoxam	0.179	24.8	500	<LOQ
Fipronil	0.317	24.8	100	<LOQ	Trifloxystrobin	0.134	24.8	100	<LOQ
Flonicamid	0.466	24.8	100	<LOQ					


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EARTH CITY, MO 63045
Production Date: 2025-10-20

Batch Data:

Batch # HRBG52020201
Batch Date: 2025-10-20
Extracted From: Hemp

Order Details:

Test Reg State: Florida

Order

TOP251023-050001
Order Date: 2025-10-23
Sample # AAHE178

Sampling Date:

2025-10-28
Lab Batch Date: 2025-10-28
Completion Date: 2025-10-31

Initial Gross Weight:

7.500 g

Net Weight per Package:

1500.000 mg

Net Weight per Serving:

750 mg
Servings Per Package:
2



Product Image



Potency
Tested



HHCP
Tested



Heavy Metals
Passed



2,3-Butanedione
Passed



Mycotoxins
Passed



Pesticides
Passed



Residual Solvents
Passed



Moisture
Tested



Water Activity
Tested



Pathogenic Microbiology
Passed



Microbiology
Tested



Vitamin E
Passed

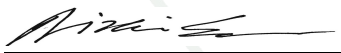


Filth and Foreign
Passed



Potency Summary

Total HHC	3.16%	Delta 9 THC	<LOQ
per Serving	23.7 mg	per Serving	0.00 mg
per Package	47.4 mg	per Package	0.00 mg
Total Active CBD	0.184%	Total CBG	3.37%
per Serving	1.38 mg	per Serving	25.3 mg
per Package	2.76 mg	per Package	50.6 mg
Total CBN	0.204%	Total Cannabinoids	22.3%
per Serving	1.53 mg	per Serving	168 mg
per Package	3.06 mg	per Package	335 mg
Total Active THC	0.155%	Total DELTA-8-THC	10.7%
per Serving	1.16 mg	per Serving	79.9 mg
per Package	2.33 mg	per Package	160 mg


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 Client supplied the net weight of mg The results apply to the sample as received. 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. The scope of this analysis is limited to the parameters listed in this COA. Testing for food additives (e.g., preservatives, colorant, flavor enhancers) was not conducted. Therefore, no conclusions should be drawn regarding the presence or absence of such additives. The current and valid permit number for the facility issued by a human health or food safety regulatory entity with authority over the facility is stated above, and that the facility meets the human health or food safety sanitization requirements of the regulatory entity as documented by the regulatory entity and evidenced by the valid permit number



Certificate of Analysis

Compliance Test

Client Information:

Top Shelf Hemp Co
13720 SHORELINE CT. E
EARTH CITY, MO 63045

Manufacturing Facility:

Top Shelf Hemp Co
13720 SHORELINE CT. E
EARTH CITY, MO 63045
Production Date: 2025-10-20

Batch Data:

Batch # HRBG52020201
Batch Date: 2025-10-20
Extracted From: Hemp

Order Details:

Test Reg State: Florida

Order

TOP251023-050001
Order Date: 2025-10-23
Sample # AAHE178

Sampling Date:

2025-10-28
Lab Batch Date: 2025-10-28
Completion Date: 2025-10-31

Initial Gross Weight:

7.500 g

Net Weight per Package:

1500.000 mg

Net Weight per Serving:

750 mg
Servings Per Package:
2



Potency(GA)+THCP

Specimen Weight: 203.400 mg

Tested

SOP13.001 (LCUV)

Analyte	LOD (mg/g)	LOQ (%)	Result (mg/g)	(%)	Per Serving (mg)	Per Package (mg)
Delta-8 THC	0.000026	0.0125	107	10.7	79.9	160
Delta-9-THCP	0.0000117	0.01	39.8	3.98	29.9	59.7
CBGA	0.00008	0.0125	35.6	3.56	26.7	53.4
CBG	0.000248	0.0125	2.47	0.247	1.85	3.71
CBN	0.000014	0.0125	2.04	0.204	1.53	3.06
THCA-A	0.000032	0.0125	1.77	0.177	1.33	2.66
CBDA	0.00001	0.0125	1.72	0.172	1.29	2.58
Delta-8-THCP	0.000375	0.0125	0.350	0.0350	0.263	0.525
CBD	0.0000540	0.0125	0.330	0.0330	0.248	0.495
Delta-10 THC	0.000003	0.0125	<LOQ	<LOQ	0.00	0.00
Delta-9 THC	0.000013	0.0125	<LOQ	<LOQ	0.00	0.00
Delta-9 THC-O Acetate	0.000077	0.025	<LOQ	<LOQ	0.00	0.00
Exo-THC	0.00023	0.0125	<LOQ	<LOQ	0.00	0.00
Total Active THC			1.55	0.155	1.16	2.33
Total Active CBD			1.84	0.184	1.38	2.76

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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13720 SHORELINE CT. E
EARTH CITY, MO 63045

Manufacturing Facility:

Top Shelf Hemp Co
13720 SHORELINE CT. E
EARTH CITY, MO 63045
Production Date: 2025-10-20

Batch Data:

Batch # HRBG52020201
Batch Date: 2025-10-20
Extracted From: Hemp

Order Details:

Test Reg State: Florida

Order

TOP251023-050001
Order Date: 2025-10-23
Sample # AAHE178

Sampling Date:

2025-10-28
Lab Batch Date: 2025-10-28
Completion Date: 2025-10-31

Initial Gross Weight:

7.500 g

Net Weight per Package:

1500.000 mg

Net Weight per Serving:

750 mg
Servings Per Package:
2



2,3-butanedione(Diacetyl) Florida

Specimen Weight: 15.900 mg

Passed

SOP13.039 (GCMS-HS)

Dilution Factor: 1.000

Analyte	LOD (ppm)	LOQ (ppm)	Result (ppm)
2,3-Butanedione	0.000	0.2	<LOQ



Moisture

Specimen Weight: N/A

Tested

SOP13.015 (Moisture Meter)

Analyte	Action Level (%)	Result (%)
Moisture	15	6.37



Water Activity Florida

Specimen Weight: 0.500 g

Tested

SOP13.016 (Water Activity Analyzer)

Dilution Factor: 1.000

Analyte	Acceptable Range (aw)	Result (aw)
Water Activity	.55 - .65	0.411



Microbiology AC TYM BTGN plating - (GA)

Specimen Weight: 994.900 mg

Tested

SOP13.003 (Petrifilm)

Dilution Factor: 1.000

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	3000				

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Production Date: 2025-10-20

Batch Data:

Batch # HRBG52020201
Batch Date: 2025-10-20
Extracted From: Hemp

Order Details:

Test Reg State: Florida

Order

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Order Date: 2025-10-23
Sample # AAHE178

Sampling Date:

2025-10-28
Lab Batch Date: 2025-10-28
Completion Date: 2025-10-31

Initial Gross Weight:

7.500 g

Net Weight per Package:

1500.000 mg

Net Weight per Serving:

750 mg
Servings Per Package:
2



Filth and Foreign Material

Specimen Weight: N/A Dilution Factor: 1.000

Passed

SOP13.020 (Electronic Balance)			SOP13.020 (Electronic Balance)		
Analyte	Action Level (%)	Result (%)	Analyte	Action Level (%)	Result (%)
Covered Area	10	0.00	Weight %	1	0.00
Feces	0.5	0.00			



Pathogenic Microbiology SAE (MicroArray)

Specimen Weight: 1041.200 mg

Passed

SOP13.019 (Micro Array)

Dilution Factor: 1.000			
Analyte	Result (cfu/g)	Analyte	Result (cfu/g)
Aspergillus flavus	Absence in 1g	E.Coli	Absence in 1g
Aspergillus fumigatus	Absence in 1g	Salmonella	Absence in 1g
Aspergillus niger	Absence in 1g	STEC E. Coli	Absence in 1g
Aspergillus terreus	Absence in 1g		

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EARTH CITY, MO 63045

Manufacturing Facility:

Top Shelf Hemp Co
13720 SHORELINE CT. E
EARTH CITY, MO 63045
Production Date: 2025-10-20

Batch Data:

Batch # HRBG52020201
Batch Date: 2025-10-20
Extracted From: Hemp

Order Details:

Test Reg State: Florida

Order

TOP251023-050001
Order Date: 2025-10-23
Sample # AAHE178

Sampling Date: 2025-10-28

Lab Batch Date: 2025-10-28
Completion Date: 2025-10-31

Initial Gross Weight: 7.500 g

Net Weight per Package:
1500.000 mg

Net Weight per Serving:
750 mg
Servings Per Package:
2



Vitamin E (Tocopheryl Acetate)

Specimen Weight: 585.700 mg

Passed

SOP13.007 (LCMS/GCMS)

Dilution Factor: 2.560

Analyte	LOD (ppb)	LOQ (ppb)	Action Level (ppb)	Result (ppb)
Tocopheryl Acetate (Vitamin E Acetate)	0.705	500	500	<LOQ



Heavy Metals Florida

Specimen Weight: 245.800 mg

Passed

SOP13.048 (ICP-MS)

Dilution Factor: 203.417

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	200	164	Lead (Pb)	0.007	100	500	191
Cadmium (Cd)	0.003	100	200	157	Mercury (Hg)	0.016	100	200	<LOQ



Mycotoxins FL

Specimen Weight: 585.700 mg

Passed

SOP13.007 (LCMS/GCMS)

Dilution Factor: 2.560

Analyte	LOD (ppb)	LOQ (ppb)	Action Level (ppb)	Result (ppb)	Analyte	LOD (ppb)	LOQ (ppb)	Action Level (ppb)	Result (ppb)
Aflatoxin B1	0.304	4.9	20	<LOQ	Aflatoxin G2	0.271	4.9	20	<LOQ
Aflatoxin B2	0.077	4.9	20	<LOQ	Ochratoxin A	0.754	9.8	20	<LOQ
Aflatoxin G1	0.304	4.9	20	<LOQ					

Aixia Sun

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



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Compliance Test

Client Information:

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13720 SHORELINE CT. E
EARTH CITY, MO 63045

Manufacturing Facility:

Top Shelf Hemp Co
13720 SHORELINE CT. E
EARTH CITY, MO 63045
Production Date: 2025-10-20

Batch Data:

Batch # HRBG52020201
Batch Date: 2025-10-20
Extracted From: Hemp

Order Details:

Test Reg State: Florida

Order #

TOP251023-050001
Order Date: 2025-10-23
Sample # AAHE178

Sampling Date: 2025-10-28

Lab Batch Date: 2025-10-28
Completion Date: 2025-10-31

Initial Gross Weight: 7.500 g

Net Weight per Package:

1500.000 mg

Net Weight per Serving:

750 mg
Servings Per Package:
2

HHCP

HHCP

Specimen Weight: 203.400 mg

Dilution Factor: 7500.000

Tested
SOP13.050 (LCMS)

Analyte	LOD (%)	LOQ (%)	Result (mg/g)	(%)	Analyte	LOD (%)	LOQ (%)	Result (mg/g)	(%)
(9R)-HHC	0.000	0.075	23.1	2.31	9(S)-HHCP	0.000	0.075	<LOQ	<LOQ
(9S)-HHC	0.000	0.075	8.50	0.85	CBC	0.000	0.075	1.28	0.128
(±)-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	0.075	<LOQ	<LOQ	Total HHC	0.075	31.6	3.16	



Residual Solvents - FL (CBD)

Specimen Weight: 15.900 mg

Dilution Factor: 1.000

Passed
SOP13.039 (GCMS-MS)

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	27.3	Isopropyl alcohol	0.005	13.9	500	<LOQ
Acetonitrile	0.060	11.7	60	<LOQ	Methanol	0.001	6.9	250	19.7
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	50.3	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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Lab Director/Principal Scientist
D.H.Sc., M.Sc., B.Sc., MT (AAB)

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Compliance Test

Client Information:
Top Shelf Hemp Co
13720 SHORELINE CT. E
EARTH CITY, MO 63045

Manufacturing Facility:
Top Shelf Hemp Co
13720 SHORELINE CT. E
EARTH CITY, MO 63045
Production Date: 2025-10-20

Batch Data:
Batch # HRBG52020201
Batch Date: 2025-10-20
Extracted From: Hemp

Order Details:
Test Reg State: Florida

Order #
TOP251023-050001
Order Date: 2025-10-23
Sample # AAHE178

Sampling Date: 2025-10-28
Lab Batch Date: 2025-10-28
Completion Date: 2025-10-31

Initial Gross Weight: 7.500 g

Net Weight per Package:
1500.000 mg

Net Weight per Serving:
750 mg
Servings Per Package:
2

Pesticides Florida
Specimen Weight: 585.700 mg

Passed
SOP13.007 (LCMS/GCMS)

Dilution Factor: 2.560

Analyte	LOD (ppb)	LOQ (ppb)	Action Level (ppb)	Result (ppb)	Analyte	LOD (ppb)	LOQ (ppb)	Action Level (ppb)	Result (ppb)
Abamectin	0.399	23.3	100	<LOQ	Fludioxonil	0.360	24.8	100	<LOQ
Acephate	0.141	24.8	100	<LOQ	Hexythiazox	0.113	24.8	100	<LOQ
Acequinocyl	2.178	24.8	100	<LOQ	Imazalil	0.258	24.8	100	<LOQ
Acetamiprid	0.140	24.8	100	<LOQ	Imidacloprid	0.402	24.8	400	<LOQ
Aldicarb	0.203	24.8	100	<LOQ	Kresoxim Methyl	0.182	24.8	100	<LOQ
Azoxystrobin	0.188	24.8	100	<LOQ	Malathion	0.223	24.8	200	<LOQ
Bifenazate	0.086	24.8	100	<LOQ	Metalaxyl	0.270	24.8	100	<LOQ
Bifenthrin	0.100	24.8	100	<LOQ	Methiocarb	0.118	24.8	100	<LOQ
Boscalid	0.595	24.8	100	<LOQ	Methomyl	0.064	24.8	100	<LOQ
Captan	1.850	323	700	<LOQ	methyl-Parathion	2.390	24.8	100	<LOQ
Carbaryl	0.122	24.8	500	<LOQ	Mevinphos	0.093	24.8	100	<LOQ
Carbofuran	0.086	24.8	100	<LOQ	Myclobutanil	0.573	24.8	24.8	<LOQ
Chlorantraniliprole	0.084	24.8	1000	<LOQ	Naled	0.069	24.8	250	<LOQ
Chlordane	9.671	24.8	100	<LOQ	Oxamyl	0.041	24.8	500	<LOQ
Chlorfenapyr	1.500	24.8	100	<LOQ	Paclobutrazol	0.186	24.8	100	<LOQ
Chlormequat Chloride	0.205	24.8	1000	<LOQ	Pentachloronitrobenzene	7.950	24.8	150	<LOQ
Chlorpyrifos	0.109	24.8	100	<LOQ	Permethrin	0.624	24.8	100	<LOQ
Clofentezine	0.212	24.8	200	<LOQ	Phosmet	0.127	24.8	100	<LOQ
Coumaphos	0.206	24.8	100	<LOQ	Piperonylbutoxide	0.149	24.8	3000	<LOQ
Cyfluthrin	0.980	24.8	500	<LOQ	Prallethrin	1.476	24.8	100	<LOQ
Cypermethrin	0.985	24.8	500	<LOQ	Propiconazole	0.294	24.8	100	<LOQ
Daminozide	1.655	24.8	100	<LOQ	Propoxur	0.100	24.8	100	<LOQ
Diazinon	0.212	24.8	100	<LOQ	Pyrethrins	0.067	12.9	500	<LOQ
Dichlorvos	1.130	24.8	100	<LOQ	Pyridaben	0.140	24.8	200	<LOQ
Dimethoate	0.063	24.8	100	<LOQ	Spinetoram	0.424	24.8	200	<LOQ
Dimethomorph	2.581	24.8	200	<LOQ	Spinosad	0.028	24.8	100	<LOQ
Ethoprophos	0.151	24.8	100	<LOQ	Spiromesifen	0.120	24.8	100	<LOQ
Etofenprox	0.172	24.8	100	<LOQ	Spirotetramat	0.211	24.8	100	<LOQ
Etoazole	0.866	24.8	100	<LOQ	Spiroxamine	0.533	24.8	100	<LOQ
Fenhexamid	0.588	24.8	100	<LOQ	Tebuconazole	0.230	24.8	100	<LOQ
Fenoxycarb	0.274	24.8	100	<LOQ	Thiacloprid	0.170	24.8	100	<LOQ
Fenpyroximate	0.198	24.8	100	<LOQ	Thiamethoxam	0.179	24.8	500	<LOQ
Fipronil	0.317	24.8	100	<LOQ	Trifloxystrobin	0.134	24.8	100	<LOQ
Flonicamid	0.466	24.8	100	<LOQ					

Aixia Sun
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Compliance Test

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Top Shelf Hemp Co
13720 SHORELINE CT. E
EARTH CITY, MO 63045

Manufacturing Facility:

Top Shelf Hemp Co
13720 SHORELINE CT. E
EARTH CITY, MO 63045
Production Date: 2025-10-20

Batch Data:

Batch # HRBD52020201
Batch Date: 2025-10-20
Extracted From: Hemp

Order Details:

Test Reg State: Florida

Order

TOP251023-050001
Order Date: 2025-10-23
Sample # AAHE175

Sampling Date: 2025-10-28

Lab Batch Date: 2025-10-28
Completion Date: 2025-10-31

Initial Gross Weight: 7.400 g

Net Weight per Package:
1500.000 mgNet Weight per Serving:
750 mg
Servings Per Package:
2

Product Image

Potency
TestedHHCP
TestedHeavy Metals
Passed2,3-Butanedione
PassedMycotoxins
PassedPesticides
PassedResidual Solvents
PassedMoisture
TestedWater Activity
TestedPathogenic Microbiology
PassedMicrobiology
TestedVitamin E
PassedFilth and Foreign
Passed

Potency Summary

Total HHC	3.59%	Delta 9 THC	<LOQ
per Serving	26.9 mg	per Serving	0.00 mg
per Package	53.8 mg	per Package	0.00 mg
Total Active CBD	0.194%	Total CBG	4.66%
per Serving	1.45 mg	per Serving	34.9 mg
per Package	2.91 mg	per Package	69.9 mg
Total CBN	0.239%	Total Cannabinoids	25.5%
per Serving	1.79 mg	per Serving	191 mg
per Package	3.59 mg	per Package	382 mg
Total Active THC	0.174%	Total DELTA-8-THC	11.6%
per Serving	1.31 mg	per Serving	87.2 mg
per Package	2.61 mg	per Package	174 mg

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 Client supplied the net weight of mg The results apply to the sample as received.

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Certificate of Analysis

Compliance Test

Client Information:

Top Shelf Hemp Co
13720 SHORELINE CT. E
EARTH CITY, MO 63045

Manufacturing Facility:

Top Shelf Hemp Co
13720 SHORELINE CT. E
EARTH CITY, MO 63045
Production Date: 2025-10-20

Batch Data:

Batch # HRBD52020201
Batch Date: 2025-10-20
Extracted From: Hemp

Order Details:

Test Reg State: Florida

Order

TOP251023-050001
Order Date: 2025-10-23
Sample # AAHE175

Sampling Date:

2025-10-28
Lab Batch Date: 2025-10-28
Completion Date: 2025-10-31

Initial Gross Weight:

7.400 g

Net Weight per Package:

1500.000 mg

Net Weight per Serving:

750 mg
Servings Per Package:
2



Potency(GA)+THCP

Specimen Weight: 204.530 mg

Tested

SOP13.001 (LCUV)

Analyte	LOD (mg/g)	LOQ (%)	Result (mg/g)	(%)	Per Serving (mg)	Per Package (mg)
Delta-8 THC	0.000026	0.0125	116	11.6	87.2	174
CBGA	0.00008	0.0125	50.0	5.00	37.5	75.1
Delta9-THCP	0.0000117	0.01	41.7	4.17	31.3	62.6
CBG	0.000248	0.0125	2.65	0.265	1.99	3.98
CBN	0.000014	0.0125	2.39	0.239	1.79	3.59
THCA-A	0.000032	0.0125	1.98	0.198	1.49	2.97
CBDA	0.00001	0.0125	1.79	0.179	1.34	2.69
CBD	0.0000540	0.0125	0.370	0.0370	0.278	0.555
Delta8-THCP	0.000375	0.0125	0.360	0.0360	0.270	0.540
Delta-10 THC	0.000003	0.0125	<LOQ	<LOQ	0.00	0.00
Delta-9 THC	0.000013	0.0125	<LOQ	<LOQ	0.00	0.00
Delta-9 THC-O Acetate	0.000077	0.025	<LOQ	<LOQ	0.00	0.00
Exo-THC	0.00023	0.0125	<LOQ	<LOQ	0.00	0.00
Total Active THC			1.74	0.174	1.30	2.60
Total Active CBD			1.94	0.194	1.46	2.91

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Batch Date: 2025-10-20
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Order Details:

Test Reg State: Florida

Order #

TOP251023-050001
Order Date: 2025-10-23
Sample # AAHE175

Sampling Date: 2025-10-28

Lab Batch Date: 2025-10-28
Completion Date: 2025-10-31

Initial Gross Weight: 7.400 g

Net Weight per Package:
1500.000 mg

Net Weight per Serving:
750 mg
Servings Per Package:
2



2,3-butanedione(Diacetyl) Florida

Specimen Weight: 15.800 mg

Passed
SOP13.039 (GCMS-HS)

Dilution Factor: 1.000

Analyte	LOD (ppm)	LOQ (ppm)	Result (ppm)
2,3-Butanedione	0.000	0.2	<LOQ



Moisture

Specimen Weight: N/A

Tested
SOP13.015 (Moisture Meter)

Analyte	Action Level (%)	Result (%)
Moisture	15	6.74



Water Activity Florida

Specimen Weight: 0.500 g

Tested
SOP13.016 (Water Activity Analyzer)

Dilution Factor: 1.000

Analyte	Acceptable Range (aw)	Result (aw)
Water Activity	.55 - .65	0.409



Microbiology AC TYM BTGN plating - (GA)

Specimen Weight: 995.200 mg

Tested
SOP13.003 (Petrifilm)

Dilution Factor: 1.000

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				

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Net Weight per Serving:
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2



Filth and Foreign Material

Specimen Weight: N/A Dilution Factor: 1.000

Passed

SOP13.020 (Electronic Balance)			SOP13.020 (Electronic Balance)		
Analyte	Action Level (%)	Result (%)	Analyte	Action Level (%)	Result (%)
Covered Area	10	0.00	Weight %	1	0.00
Feces	0.5	0.00			



Pathogenic Microbiology SAE (MicroArray)

Specimen Weight: 1037.200 mg

Passed

Dilution Factor: 1.000

SOP13.019 (Micro Array)		SOP13.019 (Micro Array)	
Analyte	Result (cfu/g)	Analyte	Result (cfu/g)
Aspergillus flavus	Absence in 1g	E.Coli	Absence in 1g
Aspergillus fumigatus	Absence in 1g	Salmonella	Absence in 1g
Aspergillus niger	Absence in 1g	STEC E. Coli	Absence in 1g
Aspergillus terreus	Absence in 1g		

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Net Weight per Serving:
750 mg
Servings Per Package:
2



Vitamin E (Tocopheryl Acetate)

Specimen Weight: 602.700 mg

Passed

SOP13.007 (LCMS/GCMS)

Dilution Factor: 2.490

Analyte	LOD (ppb)	LOQ (ppb)	Action Level (ppb)	Result (ppb)
Tocopheryl Acetate (Vitamin E Acetate)	0.705	500	500	<LOQ



Heavy Metals Florida

Specimen Weight: 254.100 mg

Passed

SOP13.048 (ICP-MS)

Dilution Factor: 196.773

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	200	187	Lead (Pb)	0.007	100	500	195
Cadmium (Cd)	0.003	100	200	153	Mercury (Hg)	0.016	100	200	<LOQ



Mycotoxins FL

Specimen Weight: 602.700 mg

Passed

SOP13.007 (LCMS/GCMS)

Dilution Factor: 2.490

Analyte	LOD (ppb)	LOQ (ppb)	Action Level (ppb)	Result (ppb)	Analyte	LOD (ppb)	LOQ (ppb)	Action Level (ppb)	Result (ppb)
Aflatoxin B1	0.304	4.9	20	<LOQ	Aflatoxin G2	0.271	4.9	20	<LOQ
Aflatoxin B2	0.077	4.9	20	<LOQ	Ochratoxin A	0.754	9.8	20	<LOQ
Aflatoxin G1	0.304	4.9	20	<LOQ					

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



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Batch Date: 2025-10-20
Extracted From: Hemp

Order Details:

Test Reg State: Florida

Order

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Order Date: 2025-10-23
Sample # AAHE175

Sampling Date:

2025-10-28
Lab Batch Date: 2025-10-28
Completion Date: 2025-10-31

Initial Gross Weight:

7.400 g

Net Weight per Package:

1500.000 mg

Net Weight per Serving:

750 mg
Servings Per Package:
2

HHCP

Specimen Weight: 204.530 mg

Tested

SOP13.050 (LCMS)

Dilution Factor: 7500.000

Analyte	LOD (%)	LOQ (%)	Result (mg/g)	(%)	Analyte	LOD (%)	LOQ (%)	Result (mg/g)	(%)
(9R)-HHC	0.000	0.075	26.3	2.63	9(S)-HHCP	0.000	0.075	<LOQ	<LOQ
(9S)-HHC	0.000	0.075	9.59	0.959	CBC	0.000	0.075	1.33	0.133
(±)-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	0.075	<LOQ	<LOQ	Total HHC	0.000	0.075	35.9	3.589



Residual Solvents - FL (CBD)

Specimen Weight: 15.800 mg

Passed

SOP13.039 (GCMS-MS)

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	26.8	Isopropyl alcohol	0.005	13.9	500	<LOQ
Acetonitrile	0.060	11.7	60	<LOQ	Methanol	0.001	6.9	250	19.5
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	35.1	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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Batch Date: 2025-10-20
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Test Reg State: Florida

Order #

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Order Date: 2025-10-23
Sample # AAHE175

Sampling Date: 2025-10-28

Lab Batch Date: 2025-10-28
Completion Date: 2025-10-31

Initial Gross Weight: 7.400 g

Net Weight per Package:
1500.000 mg

Net Weight per Serving:
750 mg
Servings Per Package:
2



Pesticides Florida

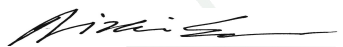
Specimen Weight: 602.700 mg

Passed

SOP13.007 (LCMS/GCMS)

Dilution Factor: 2.490

Analyte	LOD (ppb)	LOQ (ppb)	Action Level (ppb)	Result (ppb)	Analyte	LOD (ppb)	LOQ (ppb)	Action Level (ppb)	Result (ppb)
Abamectin	0.399	23.3	100	<LOQ	Fludioxonil	0.360	24.8	100	<LOQ
Acephate	0.141	24.8	100	<LOQ	Hexythiazox	0.113	24.8	100	<LOQ
Acequinocyl	2.178	24.8	100	<LOQ	Imazalil	0.258	24.8	100	<LOQ
Acetamiprid	0.140	24.8	100	<LOQ	Imidacloprid	0.402	24.8	400	<LOQ
Aldicarb	0.203	24.8	100	<LOQ	Kresoxim Methyl	0.182	24.8	100	<LOQ
Azoxystrobin	0.188	24.8	100	<LOQ	Malathion	0.223	24.8	200	<LOQ
Bifenazate	0.086	24.8	100	<LOQ	Metalaxyl	0.270	24.8	100	<LOQ
Bifenthrin	0.100	24.8	100	<LOQ	Methiocarb	0.118	24.8	100	<LOQ
Boscalid	0.595	24.8	100	<LOQ	Methomyl	0.064	24.8	100	<LOQ
Captan	1.850	323	700	<LOQ	methyl-Parathion	2.390	24.8	100	<LOQ
Carbaryl	0.122	24.8	500	<LOQ	Mevinphos	0.093	24.8	100	<LOQ
Carbofuran	0.086	24.8	100	<LOQ	Myclobutanil	0.573	24.8	24.8	<LOQ
Chlorantraniliprole	0.084	24.8	1000	<LOQ	Naled	0.069	24.8	250	<LOQ
Chlordane	9.671	24.8	100	<LOQ	Oxamyl	0.041	24.8	500	<LOQ
Chlorfenapyr	1.500	24.8	100	<LOQ	Paclobutrazol	0.186	24.8	100	<LOQ
Chlormequat Chloride	0.205	24.8	1000	<LOQ	Pentachloronitrobenzene	7.950	24.8	150	<LOQ
Chlorpyrifos	0.109	24.8	100	<LOQ	Permethrin	0.624	24.8	100	<LOQ
Clofentezine	0.212	24.8	200	<LOQ	Phosmet	0.127	24.8	100	<LOQ
Coumaphos	0.206	24.8	100	<LOQ	Piperonylbutoxide	0.149	24.8	3000	<LOQ
Cyfluthrin	0.980	24.8	500	<LOQ	Prallethrin	1.476	24.8	100	<LOQ
Cypermethrin	0.985	24.8	500	<LOQ	Propiconazole	0.294	24.8	100	<LOQ
Daminozide	1.655	24.8	100	<LOQ	Propoxur	0.100	24.8	100	<LOQ
Diazinon	0.212	24.8	100	<LOQ	Pyrethrins	0.067	12.9	500	<LOQ
Dichlorvos	1.130	24.8	100	<LOQ	Pyridaben	0.140	24.8	200	<LOQ
Dimethoate	0.063	24.8	100	<LOQ	Spinetoram	0.424	24.8	200	<LOQ
Dimethomorph	2.581	24.8	200	<LOQ	Spinosad	0.028	24.8	100	<LOQ
Ethoprophos	0.151	24.8	100	<LOQ	Spiromesifen	0.120	24.8	100	<LOQ
Etofenprox	0.172	24.8	100	<LOQ	Spirotetramat	0.211	24.8	100	<LOQ
Etoxazole	0.866	24.8	100	<LOQ	Spiroxamine	0.533	24.8	100	<LOQ
Fenhexamid	0.588	24.8	100	<LOQ	Tebuconazole	0.230	24.8	100	<LOQ
Fenoxycarb	0.274	24.8	100	<LOQ	Thiacloprid	0.170	24.8	100	<LOQ
Fenpyroximate	0.198	24.8	100	<LOQ	Thiamethoxam	0.179	24.8	500	<LOQ
Fipronil	0.317	24.8	100	<LOQ	Trifloxystrobin	0.134	24.8	100	<LOQ
Flonicamid	0.466	24.8	100	<LOQ					


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