



## 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 #

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

<b>Total HHC</b>	<b>3.31%</b>	<b>Delta 9 THC</b>	<b>&lt;LOQ</b>
per Serving	24.8 mg	per Serving	0.00 mg
per Package	49.7 mg	per Package	0.00 mg
<b>Total Active CBD</b>	<b>0.191%</b>	<b>Total CBG</b>	<b>4.51%</b>
per Serving	1.43 mg	per Serving	33.8 mg
per Package	2.86 mg	per Package	67.6 mg
<b>Total CBN</b>	<b>0.218%</b>	<b>Total Cannabinoids</b>	<b>25.3%</b>
per Serving	1.64 mg	per Serving	189 mg
per Package	3.27 mg	per Package	379 mg
<b>Total Active THC</b>	<b>0.167%</b>	<b>Total DELTA-8-THC</b>	<b>10.6%</b>
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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750 mg  
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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

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#### Definitions are found on page 1

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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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#### 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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**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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**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					

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## 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
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					

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## Definitions are found on page 1

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.