



Certificate of Analysis

Compliance Test

Client Information:

High Spirits
13611 E 104th Ave #800
Suite 160
Commerce City, CO 80022

Manufacturing Facility:

Sleeping Giant Brewing Company LLC
2500 W 5th Ave
Denver, CO 80204-4803

Batch Data:

Batch # 050CL003
Batch Date: 2025-11-03
Extracted From: Hemp

Order Details:

Test Reg State: Georgia

Order #

HIG251110-030001
Order Date: 2025-11-10
Sample # AAHF134

Sampling Date: 2025-11-13

Lab Batch Date: 2025-11-13
Orig. Completion Date: 2025-11-19

Volume: 355 ml

Net Weight per Serving:

355 ml
Servings Per Package:
1

Statement of Amendment: Updated Potency; from HF730



Product Image



Potency Tested



HHCP Tested



Pathogenic Microbiology Tested



Heavy Metals Passed



Mycotoxins Passed



Pesticides Passed



Residual Solvents Passed



Microbiology Passed



Filtration Passed

Potency Summary

Total HHC	<LOQ	Delta 9 THC	0.0170%
per Serving	0.00 mg	per Serving	60.4 mg
per Package	0.00 mg	per Package	60.4 mg
Total Active CBD	<LOQ	Total CBG	0.000463%
per Serving	0.00 mg	per Serving	1.64 mg
per Package	0.00 mg	per Package	1.64 mg
Total CBN	0.000161%	Total Cannabinoids	0.0178%
per Serving	0.572 mg	per Serving	63.2 mg
per Package	0.572 mg	per Package	63.2 mg
Total Active THC	0.0170%		
per Serving	60.4 mg		
per Package	60.4 mg		

* Summary Results determined from two distinct Potency Tests - Potency (GA) LCUV + Potency 25 (LCUV)

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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 * 0.867), 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, The results apply to the sample as received. Revised report- see statement of amendment above.

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Batch Date: 2025-11-03
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Order Details:

Test Reg State: Georgia

Order #

HIG251110-030001
Order Date: 2025-11-10
Sample # AAHF134

Sampling Date: 2025-11-13

Lab Batch Date: 2025-11-13
Orig. Completion Date: 2025-11-19

Volume: 355 ml

Net Weight per Serving:

355 ml
Servings Per Package:
1

Potency (GA) LCUV + Potency 25 (LCUV) Tested SOP13.030 (LCMS)

Specimen Weight: 20000.000 mg

Analyte	Dilution (1:n)	LOD (mg/g)	LOQ (%)	Result (µg/ml)	(%)	Per Serving (mg)	Per Package (mg)
Delta-9 THC	40.000	1.300000E-5	0.0015	170	0.0170	60.4	60.4
CBG	8.000	2.480000E-4	0.0015	4.63	0.000463	1.64	1.64
CBN	8.000	1.400000E-5	0.0015	1.61	0.000161	0.570	0.570
THCV	8.000	7.000000E-6	0.0015	1.08	0.000108	0.383	0.383
CBD	8.000	5.400000E-5	0.0015	<LOQ	<LOQ	0.00	0.00
CBDA	8.000	1.000000E-5	0.0015	<LOQ	<LOQ	0.00	0.00
CBGA	8.000	8.000000E-5	0.0015	<LOQ	<LOQ	0.00	0.00
Delta-10 THC	8.000	3.000E-6	0.015	<LOQ	<LOQ	0.00	0.00
Delta-8 THC	8.000	2.600000E-5	0.0015	<LOQ	<LOQ	0.00	0.00
Delta-9 THC-O Acetate	8.000	7.700000E-5	0.003	<LOQ	<LOQ	0.00	0.00
Exo-THC	8.000	2.300000E-4	0.0015	<LOQ	<LOQ	0.00	0.00
THCA-A	8.000	3.200000E-5	0.0015	<LOQ	<LOQ	0.00	0.00
CBC	8.000	2.760000E-5	0.075	<LOQ	<LOQ	0.00	0.00
CBCA	8.000	1.070000E-4	0.0015	<LOQ	<LOQ	0.00	0.00
CBDV	8.000	6.500000E-5	0.0015	<LOQ	<LOQ	0.00	0.00
CBDVA	8.000	1.400000E-5	0.0015	<LOQ	<LOQ	0.00	0.00
CBL	8.000	3.500000E-5	0.0015	<LOQ	<LOQ	0.00	0.00
CBNA	8.000	9.500000E-5	0.0015	<LOQ	<LOQ	0.00	0.00
CBT	8.000	2.000000E-4	0.0015	<LOQ	<LOQ	0.00	0.00
Delta-8 THC-O Acetate	8.000	2.700000E-5	0.003	<LOQ	<LOQ	0.00	0.00
Delta-8 THCV	8.000	4.000000E-5	0.0015	<LOQ	<LOQ	0.00	0.00
Delta8-THCP	8.000	3.750000E-4	0.0015	<LOQ	<LOQ	0.00	0.00
Delta9-THCP	8.000	1.170000E-5	0.0012	<LOQ	<LOQ	0.00	0.00
THCB	8.000	1.800000E-4	0.00195	<LOQ	<LOQ	0.00	0.00
THCH	8.000	3.500000E-4	0.00195	<LOQ	<LOQ	0.00	0.00
THCVA	8.000	4.700000E-5	0.0015	<LOQ	<LOQ	0.00	0.00
Total Active THC	8.000			170	0.0170	60.4	60.4
Total Active CBD	8.000			<LOQ	<LOQ	0.00	0.00

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Aixia Sun Lab Director/Principal Scientist
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Definitions are found on page 1

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Certificate of Analysis
Compliance Test

Client Information: High Spirits 13611 E 104th Ave #800 Suite 160 Commerce City, CO 80022	Manufacturing Facility: Sleeping Giant Brewing Company LLC 2500 W 5th Ave Denver, CO 80204-4803	Batch Data: Batch # 050CL003 Batch Date: 2025-11-03 Extracted From: Hemp	Order Details: Test Reg State: Georgia
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Order # HIG251110-030001 Order Date: 2025-11-10 Sample # AAHF134	Sampling Date: 2025-11-13 Lab Batch Date: 2025-11-13 Orig. Completion Date: 2025-11-19	Volume: 355 ml	Net Weight per Serving: 355 ml Servings Per Package: 1
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Pathogenic Microbiology AE Microarray – GA Specimen Weight: 1043.000 mg	Tested SOP13.019 (Micro Array)		
Dilution Factor: 1.000			
Analyte	Result (cfu/g)	Analyte	Result (cfu/g)
Aspergillus (Flavus, Fumigatus, Niger, Terreus)	Passed	Shiga toxin-producing E. coli (STEC)	Passed

Microbiology AC TYM BTGN plating - (GA) Specimen Weight: 993.700 mg	Passed 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				

Filth and Foreign Material - (GA) Specimen Weight: N/A Dilution Factor: 1.000	Passed 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			

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Denver, CO 80204-4803

Batch Data:

Batch # 050CL003
Batch Date: 2025-11-03
Extracted From: Hemp

Order Details:

Test Reg State: Georgia

Order #

HIG251110-030001
Order Date: 2025-11-10
Sample # AAHF134

Sampling Date: 2025-11-13

Lab Batch Date: 2025-11-13
Orig. Completion Date: 2025-11-19

Volume: 355 ml

Net Weight per Serving:

355 ml
Servings Per Package:
1

H Heavy Metals - (GA) (Edible)

Specimen Weight: 246.700 mg

Passed

SOP13.048 (ICP-MS)

Dilution Factor: 202.675

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	500	<LOQ	Lead (Pb)	0.007	100	500	<LOQ
Cadmium (Cd)	0.003	100	500	<LOQ	Mercury (Hg)	0.016	100	500	<LOQ

I Residual Solvents (GA-4)

Specimen Weight: 1001.500 mg

Passed

SOP13.039 (GCMS-HS)

Dilution Factor: 1.000

Analyte	LOD (ppb)	LOQ (ppb)	Action Level (ppb)	Result (ppb)	Analyte	LOD (ppb)	LOQ (ppb)	Action Level (ppb)	Result (ppb)
Butane	0.417	53.6	800000	<LOQ	Heptane	0.001	29.8	500000	<LOQ
Ethanol	0.002	59.5	5000000	2410000	Hexane	0.068	25	100000	<LOQ

J Mycotoxins - (GA)

Specimen Weight: 581.400 mg

Passed

SOP13.007 (LCMS/GCMS)

Dilution Factor: 2.580

Analyte	LOD (ppb)	LOQ (ppb)	Action Level (ppb)	Result (ppb)	Analyte	LOD (ppb)	LOQ (ppb)	Action Level (ppb)	Result (ppb)
Aflatoxin B1	0.304	1.9	20	<LOQ	Aflatoxin G2	0.271	1.9	20	<LOQ
Aflatoxin B2	0.077	1.9	20	<LOQ	Ochratoxin A	0.754	3.8	20	<LOQ
Aflatoxin G1	0.304	1.9	20	<LOQ					

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Batch Date: 2025-11-03
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Order Details:

Test Reg State: Georgia

Order #

HIG251110-030001
Order Date: 2025-11-10
Sample # AAHF134

Sampling Date: 2025-11-13

Lab Batch Date: 2025-11-13
Orig. Completion Date: 2025-11-19

Volume: 355 ml

Net Weight per Serving:

355 ml
Servings Per Package:
1

HHCP HHCP

Specimen Weight: 20000.000 mg

Dilution Factor: 40.000

Tested
SOP13.050 (LCMS)

Analyte	LOD (%)	LOQ (%)	Result (µg/ml)	(%) Analyte	LOD (%)	LOQ (%)	Result (µg/ml)	(%)
(9R)-HHC	0.000	0.075	<LOQ	<LOQ 9(S)-HHCP	0.000	0.075	<LOQ	<LOQ
(9S)-HHC	0.000	0.075	<LOQ	<LOQ CBC	0.000	0.075	<LOQ	<LOQ
(±)-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	<LOQ	<LOQ

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Batch Date: 2025-11-03
Extracted From: Hemp

Order Details:

Test Reg State: Georgia

Order #

HIG251110-030001
Order Date: 2025-11-10
Sample # AAHF134

Sampling Date: 2025-11-13

Lab Batch Date: 2025-11-13
Orig. Completion Date: 2025-11-19

Volume: 355 ml

Net Weight per Serving:

355 ml
Servings Per Package:
1

Pesticides - (GA)

Specimen Weight: 581.400 mg

Passed

SOP13.007 (LCMS/GCMS)

Dilution Factor: 2.580

Analyte	LOD (ppb)	LOQ (ppb)	Action Level (ppb)	Result (ppb)	Analyte	LOD (ppb)	LOQ (ppb)	Action Level (ppb)	Result (ppb)
Abamectin	0.399	9	100	<LOQ	Fludioxonil	0.360	9.6	100	<LOQ
Acephate	0.141	9.6	100	<LOQ	Hexythiazox	0.113	9.6	100	<LOQ
Acequinocyl	2.178	9.6	100	<LOQ	Imazalil	0.258	9.6	100	<LOQ
Acetamiprid	0.140	9.6	100	<LOQ	Imidacloprid	0.402	9.6	100	<LOQ
Aldicarb	0.203	9.6	100	<LOQ	Kresoxim Methyl	0.182	9.6	100	<LOQ
Azoxystrobin	0.188	9.6	100	<LOQ	Malathion	0.223	9.6	100	<LOQ
Bifenazate	0.086	9.6	100	<LOQ	Metaxalyl	0.270	9.6	100	<LOQ
Bifenthrin	0.100	9.6	100	<LOQ	Methiocarb	0.118	9.6	100	<LOQ
Boscalid	0.595	9.6	100	<LOQ	Methomyl	0.064	9.6	100	<LOQ
Carbaryl	0.122	9.6	100	<LOQ	Mevinphos	0.093	9.6	100	<LOQ
Carbofuran	0.086	9.6	100	<LOQ	Myclobutanil	0.573	9.6	100	<LOQ
Chlorantraniliprole	0.084	9.6	100	<LOQ	Oxamyl	0.041	9.6	100	<LOQ
Chlordane	1.900	9.6	100	<LOQ	Paclobutrazol	0.186	9.6	100	<LOQ
Chlorpyrifos	0.109	9.6	100	<LOQ	Permethrin	0.624	9.6	100	<LOQ
Coumaphos	0.206	9.6	100	<LOQ	Phosmet	0.127	9.6	100	<LOQ
Cyfluthrin	0.980	9.6	100	<LOQ	Piperonylbutoxide	0.149	9.6	100	<LOQ
Cypermethrin	0.985	9.6	100	<LOQ	Prallethrin	1.476	9.6	100	<LOQ
Daminozide	1.655	9.6	100	<LOQ	Propiconazole	0.294	9.6	100	<LOQ
Diazinon	0.212	9.6	100	<LOQ	Propoxur	0.100	9.6	100	<LOQ
Dichlorvos	1.130	9.6	100	<LOQ	Pyridaben	0.140	9.6	100	<LOQ
Dimethoate	0.063	9.6	100	<LOQ	Spinetoram	0.424	9.6	100	<LOQ
Dimethomorph	2.581	9.6	100	<LOQ	Spiromesifen	0.120	9.6	100	<LOQ
Ethoprophos	0.151	9.6	100	<LOQ	Spirotetramat	0.211	9.6	100	<LOQ
Etofenprox	0.172	9.6	100	<LOQ	Spiroxamine	0.533	9.6	100	<LOQ
Etoxazole	0.866	9.6	100	<LOQ	Tebuconazole	0.230	9.6	100	<LOQ
Fenhexamid	0.588	9.6	100	<LOQ	Thiacloprid	0.170	9.6	100	<LOQ
Fenoxycarb	0.274	9.6	100	<LOQ	Thiamethoxam	0.179	9.6	100	<LOQ
Fipronil	0.317	9.6	100	<LOQ	Trifloxystrobin	0.134	9.6	100	<LOQ
Fonicamid	0.466	9.6	100	<LOQ					

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