



HiRes Labs
501 E. 15th St, Suite 500C
Edmond OK 73013
License #: TDA-0934048
Phone: 405-330-5887

Certificate of Analysis

Client Name: SpindleTap Brewery

Address: 10622 Hirsch Rd. Houston, Tx 77016

Phone: 7133251477

License Number: 1178



Sample ID:
SAM-07/06/2026-21860
Strain Name: Strawberry
Lemonade
Sample Matrix: Drink
Sample Received Date:
07/06/2026
Sampler Identification :
SpindleTap
Sample Lot ID: 921
Expiration Date: 7/8/2027
Primary Sample Size(g): 750



Results Summary

Potency

07/08/2026

TESTED

Heavy Metals

07/10/2026

✓ PASS

Pesticides

07/10/2026

✓ PASS

Microbial Impurities

07/12/2026

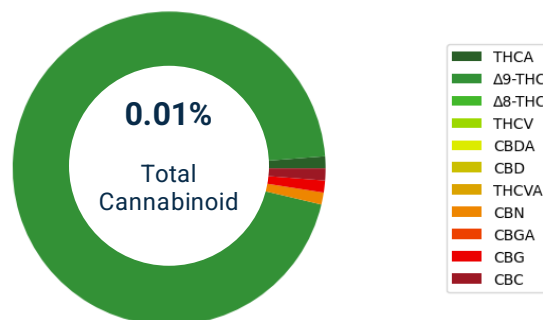
✓ PASS

Residual Solvents

07/12/2026

✓ PASS

Cannabinoid Distribution (%)



Total THC per Container: 26.50 mg



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Potency

Date Analyzed: 07/08/2026
Instrument: HPLC

Date Completed: 07/08/2026
Method: SOP-C01

Calibration Date: 06/18/2026

Cannabinoid	Result (%)	Result (mg/g)	LOQ (mg/g)	LOD (ppm)	MU (ppm)
THCA	<LOQ	<LOQ	0.010	0.087	0.083
Δ9-THC	0.008	0.077	0.010	0.106	0.101
Δ8-THC	ND	ND	0.010	0.102	0.097
THCV	ND	ND	0.010	0.081	0.078
CBDA	ND	ND	0.010	0.038	0.036
CBD	ND	ND	0.010	0.046	0.044
THCVA	ND	ND	0.010	0.085	0.081
CBN	<LOQ	<LOQ	0.010	0.093	0.089
CBGA	ND	ND	0.010	0.043	0.041
CBG	<LOQ	<LOQ	0.010	0.059	0.056
CBC	<LOQ	<LOQ	0.010	0.065	0.062
Total Δ9-THC	0.008	0.077			
Total CBD	ND	ND			
Total Cannabinoids	0.008	0.077			

Total Δ9-THC(dry) = (THCA (mg/g) x 0.877 + Δ9-THC (mg/g))/(1 - moisture)

Total CBD(dry) = (CBDA (mg/g) x 0.877 + CBD (mg/g))/(1 - moisture)

Total CBG(dry) = (CBGA (mg/g) x 0.878 + CBG(mg/g))/(1 - moisture)

Total THC(dry) = (THCVA (mg/g) x 0.867 + THC(mg/g))/(1 - moisture)

Heavy Metals

PASS

Date Analyzed: 07/08/2026
Instrument: ICPMS

Date Completed: 07/10/2026
Method: SOP-HM01

Calibration Date: 07/08/2026

Heavy Metals	Result (ppm)	Limit (ppm)	Status	LOQ (ppm)	LOD (ppb)	MU (ppb)
Arsenic	ND	0.200	Pass	0.050	0.120	0.107
Cadmium	ND	0.200	Pass	0.050	0.108	0.096
Lead	ND	0.500	Pass	0.050	0.212	0.189
Mercury	ND	0.100	Pass	0.050	0.148	0.132



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Pesticides

✓ **PASS**

Date Analyzed: 07/08/2026
Instrument: LCMSMS

Date Completed: 07/10/2026
Method: SOP-PM01

Calibration Date: 12/04/2025

Pesticide	Result (ppm)	Limit (ppm)	Status	LOQ (ppm)	LOD (ppb)	MU (ppb)
Abamectin	ND	0.500	Pass	0.080	0.097	0.087
Azoxystrobin	<LOQ	0.200	Pass	0.080	0.096	0.085
Bifenazate	<LOQ	0.200	Pass	0.080	0.074	0.066
Etoazole	ND	0.200	Pass	0.080	0.096	0.085
Imazalil	ND	0.200	Pass	0.080	0.083	0.074
Imidacloprid	ND	0.400	Pass	0.080	0.070	0.063
Malathion	ND	0.200	Pass	0.080	0.100	0.089
Myclobutanil	ND	0.200	Pass	0.080	0.104	0.093
Permethrin	ND	0.200	Pass	0.080	0.101	0.090
Spinosad	ND	0.200	Pass	0.080	0.053	0.047
Spiromesifen	ND	0.200	Pass	0.080	0.060	0.054
Spirotetramat	ND	0.200	Pass	0.080	0.058	0.052
Tebuconazole	ND	0.400	Pass	0.080	0.040	0.035

Microbial Impurities

✓ **PASS**

Date Analyzed: 07/08/2026
Instrument: qPCR and/or Plating

Date Completed: 07/12/2026
Method: SOP-Micro-01, 02, 03, 04, 05, 06, 07 and/or 08

Calibration Date: 11/18/2025

Microbials	Result (CFU/g)	Limit (CFU/g)	Status
Yeast & Mold	ND	10000	Pass
Shiga Toxin-Producing Escherichia Coli	ND	1	Pass
Salmonella	ND	1	Pass



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Residual Solvents

PASS

Date Analyzed: 07/08/2026
Instrument: GC-FID/Headspace

Date Completed: 07/12/2026
Method: SOP-RS01

Calibration Date: 06/18/2026

Residual Solvent	Result (ppm)	Limit (ppm)	Status	LOQ (ppm)	LOD (ppm)	MU (ppm)
1,2-Dichloroethane	ND	-	-			
Acetone	ND	1000.000	Pass	20.000	5.510	4.914
Acetonitrile	ND	-	-			
Benzene	ND	2.000	Pass	0.100	5.320	4.741
Butane	ND	1000.000	Pass	10.000	5.820	5.189
Chloroform	ND	-	-			
Ethanol	ND	5000.000	Pass	10.000	2.340	2.082
Ethyl Acetate	ND	1000.000	Pass	10.000	5.310	4.730
Ethyl Ether	ND	-	-			
Ethylene oxide	ND	-	-			
Heptane	ND	1000.000	Pass	10.000	7.730	6.893
Hexane	ND	60.000	Pass	1.000	3.400	3.035
Isopropyl alcohol	212.270	1000.000	Pass	10.000	0.830	0.743
Methanol	217.630	600.000	Pass	30.000	3.450	3.080
Methylene chloride	ND	-	-			
Pentane	9.570	1000.000	Pass	3.335	4.390	3.916
Propane	<LOQ	1000.000	Pass	20.000	3.280	2.929
Toluene	ND	180.000	Pass	10.000	6.670	5.948
Trichloroethylene	ND	-	-			
O-Xylene	ND	-	-	5.000	4.890	4.360
p- and m-Xylene	ND	-	-	10.000	15.090	13.456
Total Xylenes	ND	430.000	Pass	1.000		

Dr. Luke Wang
Lab Director
07/13/2026



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Abbreviated terms:

1. Cannabinoid analytes listed as full name and abbreviation.

Tetrahydrocannabinolic Acid (THCA)
Delta-9-tetrahydrocannabinol (Δ 9-THC)
Delta-8-tetrahydrocannabinol (Δ 8-THC)
Tetrahydrocannabivarin (THCV)
Cannabidiol Acid (CBDA)
Cannabidiol (CBD)
Tetrahydrocannabivarinic Acid (THCVA)
Cannabinol (CBN)
Cannabigerolic Acid (CBGA)
Cannabigerol (CBG)
Cannabichromene (CBC)

2. Definitions for Abbreviated Terms:

High Performance Liquid Chromatography (HPLC); Gas Chromatography – Flame Ionization Detector (GC-FID); Liquid Chromatography – Tandem Mass Spectrometry (LCMSMS); Inductively Coupled Mass Spectrometry (ICP-MS); Quantitative Polymerase Chain Reaction (qPCR); Limits of Detection (LOD); Limits of Quantitation (LOQ); Measurement of Uncertainty (MU); Not Detected (ND); Not Tested (NT); Too Numerous to Count (TNTC); Parts per Million (PPM); Parts per Billion (PPB); Colony Forming Units/Gram (CFU/g); Milligrams/Gram (mg/g).