



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



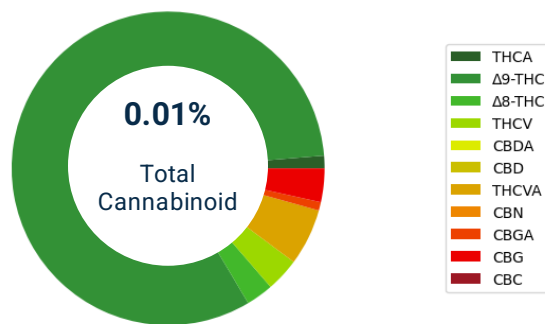
Sample ID: SAM-06/11/2026-21734
Strain Name: Only Dank: Pina Colada
Sample Matrix: Drink
Sample Received Date: 06/11/2026
Sampler Identification : SpindleTap Brewery
Sample Lot ID: 912
Expiration Date: 06/11/2027
Primary Sample Size(g): 20



Results Summary

Potency 06/12/2026	TESTED
Heavy Metals 06/19/2026	✓ PASS
Pesticides 06/19/2026	✓ PASS
Microbial Impurities 06/19/2026	✓ PASS
Residual Solvents 06/17/2026	✓ PASS

Cannabinoid Distribution (%)



Total THC per Container: 25.62 mg

The product represented has been tested by HiRes Labs using analytical instrumentation with proven and validated scientific methodologies compliant with Texas Department of State Health Services (DSHS) guidelines. The results in this COA apply only to the lot sampled, tested and described herein as tracked by State contract system. HiRes Labs makes no claims as to the efficacy and/or safety of the product represented herein. This Certificate of Analysis may not be reproduced except in full without the express written consent of HiRes Labs. All quantitative measurements reported herein have a measurement uncertainty calculated internally and is available upon requested, comprehensive of estimated errors from the Sampling SOP utilized.



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Potency

Date Analyzed:
Instrument: HPLC

Date Completed: 06/12/2026
Method: SOP-C01

Calibration Date: 11/13/2025

Cannabinoid	Result (%)	Result (mg/g)	LOQ (mg/g)	LOD (ppm)	MU (ppm)
THCA	<LOQ	<LOQ	0.010	0.087	0.083
Δ9-THC	0.007	0.074	0.010	0.106	0.101
Δ8-THC	<LOQ	<LOQ	0.010	0.102	0.097
THCV	<LOQ	<LOQ	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	<LOQ	<LOQ	0.010	0.085	0.081
CBN	ND	ND	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	ND	ND	0.010	0.065	0.062
Total Δ9-THC	0.007	0.074			
Total CBD	ND	ND			
Total Cannabinoids	0.007	0.074			

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

Heavy Metals

PASS

Date Analyzed:
Instrument: ICPMS

Date Completed: 06/19/2026
Method: SOP-HM01

Calibration Date: 12/19/2025

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



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Pesticides

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Date Analyzed:
Instrument: LCMSMS

Date Completed: 06/19/2026
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	ND	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	<LOQ	0.200	Pass	0.080	0.083	0.074
Imidacloprid	ND	0.400	Pass	0.080	0.070	0.063
Malathion	<LOQ	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	<LOQ	0.400	Pass	0.080	0.040	0.035

Microbial Impurities

PASS

Date Analyzed:
Instrument: qPCR and/or Plating

Date Completed: 06/19/2026
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:
Instrument: GC-FID/Headspace

Date Completed: 06/17/2026
Method: SOP-RS01

Calibration Date: 10/25/2025

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	44.340	1000.000	Pass	10.000	0.830	0.743
Methanol	59.630	600.000	Pass	30.000	3.450	3.080
Methylene chloride	ND	-	-			
Pentane	46.570	1000.000	Pass	3.335	4.390	3.916
Propane	ND	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
06/22/2026



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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).