



**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-06/11/2026-21735  
**Strain Name:** Only Dank:  
Pineapple Paradise  
**Sample Matrix:** Drink  
**Sample Received Date:**  
06/11/2026  
**Sampler Identification :**  
SpindleTap Brewery  
**Sample Lot ID:** 910  
**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

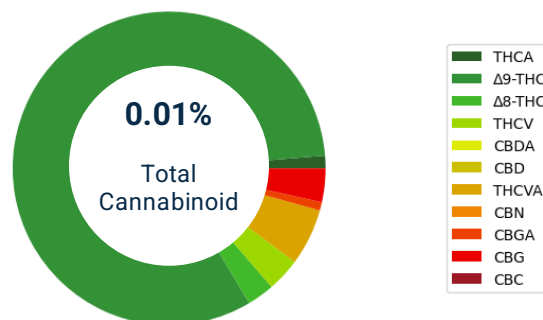
✓ PASS

### Residual Solvents

06/17/2026

✓ PASS

## Cannabinoid Distribution (%)



**Total THC per Container: 25.58 mg**



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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                    | ND           | ND            | 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    |
| <b>Total Δ9-THC</b>       | <b>0.007</b> | <b>0.074</b>  |            |           |          |
| <b>Total CBD</b>          | <b>ND</b>    | <b>ND</b>     |            |           |          |
| <b>Total Cannabinoids</b> | <b>0.007</b> | <b>0.074</b>  |            |           |          |

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     | ND           | 0.200       | Pass   | 0.080     | 0.100     | 0.089    |
| Myclobutanil  | <LOQ         | 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:**  
**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    | ND           | 1000.000       | Pass        | 10.000       | 0.830     | 0.743    |
| Methanol             | 86.140       | 600.000        | Pass        | 30.000       | 3.450     | 3.080    |
| Methylene chloride   | ND           | -              | -           |              |           |          |
| Pentane              | 56.060       | 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   |
| <b>Total Xylenes</b> | <b>ND</b>    | <b>430.000</b> | <b>Pass</b> | <b>1.000</b> |           |          |

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 ( $\Delta$ 9-THC)  
Delta-8-tetrahydrocannabinol ( $\Delta$ 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).