# Certificate of Analysis

## ANALYZED BY:

Anresco Laboratories
1375 Van Dyke Avenue,
San Francisco, CA 94124
C8-0000052-LIC

## CUSTOMER:

Surly Brewing Company
4811 Dusharme Dr
Brooklyn Center, MN 55429


## SAMPLE INFORMATION

**Sample No.:** 1261869
**Product Name:** Find Wunder: Higher Vibes Watermelon Basil
**Matrix:** Edible (Carbonated Beverage)
**Lot #:** WSTWB103 Best By:11/26/25

**Date Collected:** 12/02/2024
**Date Received:** 12/02/2024
**Date Reported:** 12/04/2024

## TEST SUMMARY

| | | | |
|---|---|---|---|
| **Cannabinoid Profile:** | Pass | **Microbiological Screen:** | Pass |
| **Pesticide Residue Screen:** | Pass | **Residual Solvent Screen:** | Pass |
| **Heavy Metal Screen:** | Pass | **Foreign Material:** | Pass |
| **Mycotoxin Screen:** | Pass | | |

## Cannabinoid Profile Pass

*12/04/2024*

**Method:** MF-CHEM-15
**Instrument:** Liquid Chromatography Diode Array Detector (LC-DAD)
**Limit of Detection** 0.0008 mg/g
**Limit of Quantitation** 0.0025 mg/g

| Cannabinoid | mg/g | % | mg/ml | mg/serving | mg/package | Labeled mg/serving | % Difference | Status |
|---|---|---|---|---|---|---|---|---|
| Δ8-THC | ND | ND | ND | ND | ND | - | - | - |
| Δ9-THC | 0.0280 | 0.0028 | 0.0286 | 5.06 | 10.13 | 5 | 1.27 | Pass |
| Δ9-THCA | ND | ND | ND | ND | ND | - | - | - |
| THCV | ND | ND | ND | ND | ND | - | - | - |
| THCVA | ND | ND | ND | ND | ND | - | - | - |
| CBD | ND | ND | ND | ND | ND | - | - | - |
| CBDA | ND | ND | ND | ND | ND | - | - | - |
| CBC | ND | ND | ND | ND | ND | - | - | - |
| CBCA | ND | ND | ND | ND | ND | - | - | - |
| CBDV | ND | ND | ND | ND | ND | - | - | - |
| CBG | 0.0281 | 0.00281 | 0.0287 | 5.08 | 10.16 | 5 | 1.63 | - |
| CBGA | ND | ND | ND | ND | ND | - | - | - |
| CBN | ND | ND | ND | ND | ND | - | - | - |
| Total THC | 0.028 | 0.0028 | 0.0286 | 5.06 | 10.13 | - | - | - |
| Total CBD | ND | ND | ND | ND | ND | - | - | - |
| Total Cannabinoids | 0.0561 | 0.00561 | 0.0573 | 10.15 | 20.29 | - | - | - |
| Sum of Cannabinoids | 0.0561 | 0.00561 | 0.0573 | 10.15 | 20.29 | - | - | - |
| **Serving Weight (g)** | 180.8409 | | | | | | | |
| **Package Weight (g)** | 361.6818 | | | | | | | |
| **g/ml Conversion Factor** | 1.0217 | | | | | | | |

Total THC = Δ8-THC + Δ9-THC + (0.877 * THCA)
Total CBD = CBD + (0.877 * CBDA)
Total Cannabinoids = Σ (neutral cannabinoids) + [0.877 * Σ (acidic cannabinoids)]

## Microbiological Screen Pass

*12/04/2024*

| Analyte | Method | Findings | Units | Status |
|---|---|---|---|---|
| Salmonella | MF-MICRO-11 | Not Detected in 25g | /1g | Pass |
| STEC | MF-MICRO-18 | Not Detected in 25g | /1g | Pass |

## Pesticide Residue Screen ✔ Pass

12/04/2024

**Method:** MF-CHEM-13

**Instrument:** Liquid Chromatography Tandem Mass Spectrometry (LC-MS/MS) & Gas Chromatography Tandem Mass Spectrometry (GC-MS/MS)

| Analyte | LOD/LOQ (µg/g) | Findings (µg/g) | Limit (µg/g) | Status |
|---|---|---|---|---|
| Abamectin | 0.04/0.10 | ND | 0.3 | Pass |
| Acephate | 0.02/0.06 | ND | 5.0 | Pass |
| Acequinocyl | 0.04/0.10 | ND | 4.0 | Pass |
| Acetamiprid | 0.017/0.05 | ND | 5.0 | Pass |
| Aldicarb | 0.02/0.06 | ND | 0.02 | Pass |
| Azoxystrobin | 0.02/0.06 | ND | 40.0 | Pass |
| Bifenazate | 0.02/0.06 | ND | 5.0 | Pass |
| Bifenthrin | 0.04/0.10 | ND | 0.5 | Pass |
| Boscalid | 0.02/0.06 | ND | 10.0 | Pass |
| Captan | 0.2/0.6 | ND | 5.0 | Pass |
| Carbaryl | 0.02/0.06 | ND | 0.5 | Pass |
| Carbofuran | 0.017/0.05 | ND | 0.017 | Pass |
| Chlorantraniliprole | 0.02/0.06 | ND | 40.0 | Pass |
| Chlordane | 0.02/0.06 | ND | 0.02 | Pass |
| Chlorfenapyr | 0.02/0.06 | ND | 0.02 | Pass |
| Chlorpyrifos | 0.02/0.06 | ND | 0.02 | Pass |
| Clofentezine | 0.02/0.06 | ND | 0.5 | Pass |
| Coumaphos | 0.02/0.06 | ND | 0.02 | Pass |
| Cyfluthrin | 0.10/0.30 | ND | 1.0 | Pass |
| Cypermethrin | 0.10/0.30 | ND | 1.0 | Pass |
| Daminozide | 0.017/0.05 | ND | 0.017 | Pass |
| DDVP (Dichlorvos) | 0.013/0.04 | ND | 0.013 | Pass |
| Diazinon | 0.017/0.05 | ND | 0.2 | Pass |
| Dimethoate | 0.017/0.05 | ND | 0.017 | Pass |
| Dimethomorph | 0.017/0.05 | ND | 20.0 | Pass |
| Ethoprop(hos) | 0.02/0.06 | ND | 0.02 | Pass |
| Etofenprox | 0.02/0.06 | ND | 0.02 | Pass |
| Etoxazole | 0.02/0.06 | ND | 1.5 | Pass |
| Fenhexamid | 0.017/0.05 | ND | 10.0 | Pass |
| Fenoxycarb | 0.02/0.06 | ND | 0.02 | Pass |
| Fenpyroximate | 0.02/0.06 | ND | 2.0 | Pass |
| Fipronil | 0.02/0.06 | ND | 0.02 | Pass |
| Flonicamid | 0.02/0.06 | ND | 2.0 | Pass |
| Fludioxonil | 0.02/0.06 | ND | 30.0 | Pass |
| Hexythiazox | 0.02/0.06 | ND | 2.0 | Pass |
| Imazalil | 0.02/0.06 | ND | 0.02 | Pass |
| Imidacloprid | 0.02/0.06 | ND | 3.0 | Pass |
| Kresoxim Methyl | 0.02/0.06 | ND | 1.0 | Pass |
| Malathion | 0.017/0.05 | ND | 5.0 | Pass |
| Metalaxyl | 0.017/0.05 | ND | 15.0 | Pass |
| Methiocarb | 0.02/0.06 | ND | 0.02 | Pass |
| Methomyl | 0.013/0.04 | ND | 0.1 | Pass |
| Methyl parathion | 0.02/0.06 | ND | 0.02 | Pass |
| Mevinphos | 0.02/0.06 | ND | 0.02 | Pass |
| Myclobutanil | 0.02/0.06 | ND | 9.0 | Pass |
| Naled | 0.017/0.05 | ND | 0.5 | Pass |
| Oxamyl | 0.013/0.04 | ND | 0.2 | Pass |
| Paclobutrazol | 0.02/0.06 | ND | 0.02 | Pass |
| Pentachloronitrobenzene | 0.017/0.05 | ND | 0.2 | Pass |
| Permethrins | 0.10/0.30 | ND | 20.0 | Pass |
| Phosmet | 0.02/0.06 | ND | 0.2 | Pass |
| Piperonyl Butoxide | 0.02/0.06 | ND | 8.0 | Pass |
| Prallethrin | 0.04/0.10 | ND | 0.4 | Pass |
| Propiconazole | 0.02/0.06 | ND | 20.0 | Pass |
| Propoxur | 0.013/0.04 | ND | 0.013 | Pass |
| Pyrethrins | 0.15/0.50 | ND | 1.0 | Pass |
| Pyridaben | 0.017/0.05 | ND | 3.0 | Pass |
| Spinetoram | 0.02/0.06 | ND | 3.0 | Pass |
| Spinosad | 0.02/0.06 | ND | 3.0 | Pass |
| Spiromesifen | 0.04/0.10 | ND | 12.0 | Pass |
| Spirotetramat | 0.02/0.06 | ND | 13.0 | Pass |
| Spiroxamine | 0.017/0.05 | ND | 0.017 | Pass |
| Tebuconazole | 0.02/0.06 | ND | 2.0 | Pass |
| Thiacloprid | 0.013/0.04 | ND | 0.013 | Pass |
| Thiamethoxam | 0.02/0.06 | ND | 4.5 | Pass |

| Analyte | LOD/LOQ (µg/g) | Findings (µg/g) | Limit (µg/g) | Status |
|---|---|---|---|---|
| Trifloxystrobin | 0.02/0.06 | ND | 30.0 | Pass |

## Residual Solvent Screen ✔ Pass

*12/04/2024*

**Method:** MF-CHEM-32

**Instrument:** Gas Chromatography Mass Spectrometry (GC/MS)

| Analyte | LOD/LOQ (ppm) | Findings (ppm) | Limit (ppm) | Status |
|---|---|---|---|---|
| 1,2-Dichloroethane | 0.5/0.5 | ND | 1 | Pass |
| Acetone | 57/200 | ND | 5000 | Pass |
| Acetonitrile | 56/200 | ND | 410 | Pass |
| Benzene | 0.5/0.5 | ND | 1 | Pass |
| n-Butane | 45/200 | ND | 5000 | Pass |
| Chloroform | 0.5/0.5 | ND | 1 | Pass |
| Ethanol | 37/200 | ND | 5000 | Pass |
| Ethyl acetate | 38/200 | ND | 5000 | Pass |
| Ethyl ether | 37/200 | ND | 5000 | Pass |
| Ethylene oxide | 0.1/0.5 | ND | 1 | Pass |
| n-Heptane | 135/200 | ND | 5000 | Pass |
| n-Hexane | 49/200 | ND | 290 | Pass |
| Isopropyl alcohol | 57/200 | ND | 5000 | Pass |
| Methanol | 37/200 | ND | 3000 | Pass |
| Methylene chloride | 0.1/0.5 | ND | 1 | Pass |
| n-Pentane | 37/200 | ND | 5000 | Pass |
| Propane | 72/200 | ND | 5000 | Pass |
| Toluene | 49/200 | ND | 890 | Pass |
| Total xylenes (ortho-, meta-, para-) | 58/200 | ND | 2170 | Pass |
| Trichloroethylene | 0.5/0.5 | ND | 1 | Pass |

## Heavy Metal Screen ✔ Pass

*12/04/2024*

**Method:** MF-CHEM-16

**Instrument:** Inductively Coupled Plasma Mass Spectrometry (ICP-MS)

| Analyte | LOD/LOQ (µg/g) | Findings (µg/g) | Limit (µg/g) | Status |
|---|---|---|---|---|
| Arsenic | 0.02/0.05 | ND | 1.5 | Pass |
| Cadmium | 0.02/0.05 | ND | 0.5 | Pass |
| Mercury | 0.02/0.05 | ND | 3 | Pass |
| Lead | 0.02/0.125 | <LOQ | 0.5 | Pass |

## Foreign Material ✔ Pass

*12/04/2024*

**Method:** MF-CHEM-7

| Analyte | Findings | Limit | Status |
|---|---|---|---|
| Sand, Soils, Cinders, and Dirt | ND | 25% | Pass |
| Mold | ND | 25% | Pass |
| Imbedded Foreign Material | ND | 25% | Pass |
| Insect Fragment | ND | 1 per 3g | Pass |
| Hair | ND | 1 per 3g | Pass |
| Mammalian Excreta | ND | 1 per 3g | Pass |

## Mycotoxin Screen ✔ Pass

*12/04/2024*

**Method:** MF-CHEM-13

**Instrument:** Liquid Chromatography Tandem Mass Spectrometry (LC-MS/MS) & Gas Chromatography Tandem Mass Spectrometry (GC-MS/MS)

| Analyte | LOD/LOQ (µg/kg) | Findings (µg/kg) | Limit (µg/kg) | Status |
|---|---|---|---|---|
| Aflatoxin B1 | 2/5 | ND | - | - |
| Aflatoxin B2 | 2/5 | ND | - | - |
| Aflatoxin G1 | 2/5 | ND | - | - |
| Aflatoxin G2 | 2/5 | ND | - | - |
| Total Aflatoxins | 8/20 | ND | 20 | Pass |
| Ochratoxin A | 6/18 | ND | 20 | Pass |

ND = None Detected
LOD = Limit of Detection
LOQ = Limit of Quantitation

Reported by


Vu Lam
Lab Co Director

Scan to verify