FOOD & ENVIRONMENT SAFETY ANALYTICAL LAB

Sample ID: 74060813-2
Date Issued: 8/27/26
Batch Result: Pass

# Certificate of Analysis

For R&D Use Only - Not a California Compliance Certificate.

# Jack Herer

License Number: 29909

Sample Name: Jack Herer
Batch Number: N/A

Matrix: Plant
Unit Mass: 1 g per unit

Sample ID: 74060813-2
Date Received: 8/13/2026



| | |
|---|---|
| **Total CBD** | **ND** |
| **Delta 9-THC** | **0.06 %** |
| **THCA** | **32.16 %** |
| **Total Cannabinoids** | **32.63 %** |

## Analysis Summary

| | |
|---|---|
| Residual Pesticides | Pass |
| Mycotoxins | Pass |
| Heavy Metals | Pass |
| Microbial Impurities | Pass |
| Foreign Material | Pass |
| Moisture Content | 10.05 % |
| Water Activity | Pass |
| Total Terpenes | 3.12 % |

## Cannabinoid Analysis

**Complete**

| Analyte | LOD (%) | LOQ (%) | Mass (%) | Mass (mg/g) |
|---|---|---|---|---|
| CBDV | 0.0035 | 0.011 | ND | ND |
| CBD | 0.0030 | 0.0090 | ND | ND |
| CBG | 0.0038 | 0.011 | ND | ND |
| CBDA | 0.0017 | 0.0052 | ND | ND |
| **CBGA** | **0.0030** | **0.010** | **0.414** | **4.14** |
| CBN | 0.00080 | 0.0024 | ND | ND |
| **Delta 9-THC** | **0.0022** | **0.0067** | **0.059** | **0.59** |
| Delta 8-THC | 0.0020 | 0.0059 | ND | ND |
| CBC | 0.00070 | 0.0021 | ND | ND |
| **THCA** | **0.0024** | **0.0073** | **32.161** | **321.61** |
| Total CBD | | | ND | ND |
| **Total THC** | | | **28.26** | **282.64** |
| **Total Cannabinoids** | | | **32.63** | **326.35** |

Date Tested: 8/13/2026

Total THC = THCa * 0.877 + d9-THC + d8-THC; Total CBD = CBDa * 0.877 + CBD

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**References:** limit of detection (LOD), limit of quantitation (LOQ), not detected (ND), not tested (NT)

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## Pesticide Analysis

**Pass**

| Analyte | LOQ (ppm) | Limit (ppm) | Mass (ppm) | Status |
|---|---|---|---|---|
| Abamectin | 0.050 | 0.10 | ND | Pass |
| Acephate | 0.050 | 0.10 | ND | Pass |
| Acequinocyl | 0.050 | 0.10 | ND | Pass |
| Acetamiprid | 0.050 | 0.10 | ND | Pass |
| Aldicarb | 0.050 | 0.00 | ND | Pass |
| Azoxystrobin | 0.050 | 0.10 | ND | Pass |
| Bifenazate | 0.050 | 0.10 | ND | Pass |
| Bifenthrin | 0.050 | 3.00 | ND | Pass |
| Boscalid | 0.050 | 0.10 | ND | Pass |
| Captan | 0.050 | 0.70 | ND | Pass |
| Carbaryl | 0.050 | 0.50 | ND | Pass |
| Carbofuran | 0.050 | 0.00 | ND | Pass |
| Chlorantraniliprole | 0.050 | 10.00 | ND | Pass |
| Chlordane | 0.050 | 0.00 | ND | Pass |
| Chlorfenapyr | 0.050 | 0.00 | ND | Pass |
| Chlorpyrifos | 0.050 | 0.00 | ND | Pass |
| Clofentezine | 0.050 | 0.10 | ND | Pass |
| Coumaphos | 0.050 | 0.00 | ND | Pass |
| Cyfluthrin | 0.050 | 2.00 | ND | Pass |
| Cypermethrin | 0.050 | 1.00 | ND | Pass |
| Daminozide | 0.050 | 0.00 | ND | Pass |
| DDVP | 0.050 | 0.00 | ND | Pass |
| Diazinon | 0.050 | 0.10 | ND | Pass |
| Dimethoate | 0.050 | 0.00 | ND | Pass |
| Dimethomorph | 0.050 | 2.00 | ND | Pass |
| Ethoprophos | 0.050 | 0.00 | ND | Pass |
| Etofenprox | 0.050 | 0.00 | ND | Pass |
| Etoxazole | 0.050 | 0.10 | ND | Pass |
| Fenhexamid | 0.050 | 0.10 | ND | Pass |
| Fenoxycarb | 0.050 | 0.00 | ND | Pass |
| Fenpyroximate | 0.050 | 0.10 | ND | Pass |
| Fipronil | 0.050 | 0.00 | ND | Pass |
| Flonicamid | 0.050 | 0.10 | ND | Pass |
| Fludioxonil | 0.050 | 0.10 | ND | Pass |
| Hexythiazox | 0.050 | 0.10 | ND | Pass |
| Imazalil | 0.050 | 0.00 | ND | Pass |
| Imidacloprid | 0.050 | 5.00 | ND | Pass |
| Kresoxim Methyl | 0.050 | 0.10 | ND | Pass |
| Malathion | 0.050 | 0.50 | ND | Pass |
| Metalaxyl | 0.050 | 2.00 | ND | Pass |
| Methiocarb | 0.050 | 0.00 | ND | Pass |
| Methomyl | 0.050 | 1.00 | ND | Pass |
| Methyl Parathion | 0.050 | 0.00 | ND | Pass |
| Mevinphos | 0.050 | 0.00 | ND | Pass |
| Myclobutanil | 0.050 | 0.10 | ND | Pass |
| Naled | 0.050 | 0.10 | ND | Pass |
| Oxamyl | 0.050 | 0.50 | ND | Pass |
| Paclobutrazol | 0.050 | 0.00 | ND | Pass |
| Pentachloronitrobenzene | 0.050 | 0.10 | ND | Pass |
| Permethrin | 0.050 | 0.50 | ND | Pass |
| Phosmet | 0.050 | 0.10 | ND | Pass |
| Piperonyl Butoxide | 0.050 | 3.00 | ND | Pass |
| Prallethrin | 0.050 | 0.10 | ND | Pass |
| Propiconazole | 0.050 | 0.10 | ND | Pass |

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## Pesticide Analysis

**Pass**

| Analyte | LOQ (ppm) | Limit (ppm) | Mass (ppm) | Status |
|---|---|---|---|---|
| Propoxur | 0.050 | 0.00 | ND | Pass |
| Pyrethrins | 0.050 | 0.50 | ND | Pass |
| Pyridaben | 0.050 | 0.10 | ND | Pass |
| Spinetoram | 0.050 | 0.10 | ND | Pass |
| Spinosad | 0.050 | 0.10 | ND | Pass |
| Spiromesifen | 0.050 | 0.10 | ND | Pass |
| Spirotetramat | 0.050 | 0.10 | ND | Pass |
| Spiroxamine | 0.050 | 0.00 | ND | Pass |
| Tebuconazole | 0.050 | 0.10 | ND | Pass |
| Thiacloprid | 0.050 | 0.00 | ND | Pass |
| Thiamethoxam | 0.050 | 5.00 | ND | Pass |
| Trifloxystrobin | 0.050 | 0.10 | ND | Pass |

Date Tested: 8/13/2026

## Mycotoxins

**Pass**

| Analyte | LOQ (µg/g) | Limit (µg/g) | Mass (µg/g) | Status |
|---|---|---|---|---|
| Aflatoxin B1 | 0.02 | 0.02 | ND | Pass |
| Aflatoxin B2 | 0.02 | 0.02 | ND | Pass |
| Aflatoxin G1 | 0.02 | 0.02 | ND | Pass |
| Aflatoxin G2 | 0.02 | 0.02 | ND | Pass |
| Ochratoxin A | 0.02 | 0.02 | ND | Pass |

Date Tested: 8/13/2026

## Heavy Metals Analysis

**Pass**

| Analyte | LOQ (µg/g) | Limit (µg/g) | Mass (µg/g) | Status |
|---|---|---|---|---|
| Arsenic | 0.050 | 0.200 | ND | Pass |
| Cadmium | 0.050 | 0.200 | ND | Pass |
| Lead | 0.125 | 0.500 | 0.203 | Pass |
| Mercury | 0.025 | 0.100 | ND | Pass |

Date Tested: 8/14/2026

## Microbial Analysis

**Pass**

| Test | Limit (CFU/g) | Result (CFU/g) | Status |
|---|---|---|---|
| *Aspergillus flavus* | <1 | Absent / 1g | Pass |
| *Aspergillus fumigatus* | <1 | Absent / 1g | Pass |
| *Aspergillus niger* | <1 | Absent / 1g | Pass |
| *Aspergillus terreus* | <1 | Absent / 1g | Pass |
| Total Aerobic Bacteria | <100,000 | 5,600 | Pass |
| Total Yeast & Mold | <10,000 | 5,900 | Pass |
| Total *E. coli* | <1 | Absent / 1g | Pass |
| *Salmonella* | <1 | Absent / 1g | Pass |

Date Tested: 8/20/2026

CFU = Colony Forming Units

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## Moisture Content

**Complete**

| Test | Result (%) |
|---|---|
| Moisture Content | 10.05 |

Date Tested: 8/13/2026

## Water Activity

**Pass**

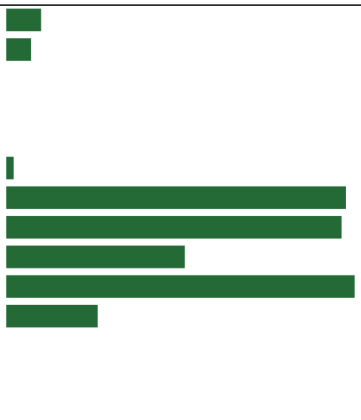
| Test | Limit (Aw) | Result (Aw) | Status |
|---|---|---|---|
| Water Activity | 0.65 | 0.54 | Pass |

Date Tested: 8/20/2026

## Terpenoid Analysis

**Complete**

| Analyte | LOQ (%) | Mass (%) | Mass (mg/g) |
|---|---|---|---|
| **Camphene** | **0.0085** | **0.0800** | **0.800** |
| **3-Carene** | **0.0085** | **0.0570** | **0.570** |
| ß-Caryophyllene | 0.0085 | ND | ND |
| p-Cymene | 0.0085 | ND | ND |
| Eucalyptol | 0.0085 | ND | ND |
| **Fenchol** | **0.0085** | **0.0170** | **0.170** |
| **α-Humulene** | **0.0085** | **0.7800** | **7.800** |
| **δ-Limonene** | **0.0085** | **0.7700** | **7.700** |
| **Linalool** | **0.0085** | **0.4100** | **4.100** |
| **ß-Myrcene** | **0.0085** | **0.8000** | **8.000** |
| **Nerolidol** | **0.0085** | **0.2100** | **2.100** |
| α-Pinene | 0.0085 | ND | ND |
| Terpinolene | 0.0085 | ND | ND |
| **Total Terpenoids** | | **3.12** | **31.24** |



Date Tested: 8/18/2026

**Method References:**

Hemp Profile (SOP HPLC Hemp by UV-Detection)

Multi-Residue Pesticide Analysis - (AOAC_200701)

*Official Methods of Analysis, AOAC Official Method 2007.01,* Pesticide Residues in Foods by Acetonitrile Extraction and Partitioning with Magnesium Sulfate, AOAC INTERNATIONAL (modified).

*CEN Standard Method EN 15662:* Food of plant origin - Determination of pesticide residues using GC-MS and/or LC-MS/MS following acetonitrile extraction/partitioning and clean-up by dispersive SPE - QuEChERS method.

Mycotoxins Analysis - 5 compounds (FDA_MYC)

Determination of Mycotoxins in Corn, Peanut Butter and Wheat Flour Using Stable Isotope Dilution Assay (SIDA) and Liquid Chromatography-Tandem Mass Spectrometry (LC-MS/MS) (modified).

Heavy Metals Analysis - 4 elements (EPA_200.8)

Methods for the Determination of Metals in Environmental Standards - Supplement 1, EPA-600/R-94-111, May 1994.

"Determination of Metals and Trace Elements in Water and Wastes by Inductively Coupled Plasma-Mass Spectrometry", USEPA Method 200.8, Revision 5.1, EMMC Version (modified).

Microbial Analysis - (AOAC_2014_991_FDA_BAM_18)

Official Methods of Analysis, AOAC Official Method 2014.01 *Salmonella* in Selected Foods, AOAC Official Method 991.14 Coliform and Escherichia coli Counts in Foods; AOAC Official Method 990.12 Aerobic Plate Count in Foods; AOAC Official Method 997.02 Yeast and Mold Counts in Foods; AOAC INTERNATIONAL (modified), U.S. Food and Drug Administration, Bacteriological Analytical Manual, Chapter 18, Yeasts, Molds and Mycotoxins (modified).

Moisture Content Analysis - (AOAC_934_06)

Official Methods of Analysis, Method 934.06.AOAC INTERNATIONAL, Moisture in Dried Fruits (modified).

Water Activity Analysis - (AOAC_978_18)

Official Methods of Analysis, Method 978.18.AOAC INTERNATIONAL, Water Activity of Canned Vegetables (modified).