infiniteCAL

Infinite Chemical Analysis Labs MI • 4400 Ann Arbor Road Jackson MI 49202 • 517-252-4587

**MI License #: AU-SC-000101**

# Certificate of Analysis

Produced: May 27, 2025

**Sample**: Lotus Cookies Patch (Topical) • **Client**: Mary's Medicinals • **Batch**: Pass


### Manufacturer Info

**Manufacturer**
JRMI27
2701 N. Dettman Rd
Jackson, MI 49201

**License**
AU-P-000174
Adult-Use and Medicinal - Processor

**Test Pkg**: 1A4050300018705000205431
**Src Pkg**: 1A4050300018705000205428
**Matrix**: Topical
**Category**: Infused Non-Edible
**Sample ID**: ICM-250520-044
**Collected on**: May 20, 2025
**Received on**: May 20, 2025
**Batch Size**: 704 Units
**Sample Size**: 9 Units
**Received By**: Vanessa Whitehead
**Package Size**: 1.29 g

### Batch Result: Pass

| | | | |
|---|---|---|---|
| **Potency** | Pass | **Microbial** | Pass |
| **Foreign** | Pass | **Pesticides** | Pass |
| **Metals** | Pass | **Solvents** | Pass |

### Cannabinoid Overview

| | |
|---|---|
| **Total THC Per Package:** | **50.258 mg/pkg** |
| **CBCV Per Package:** | **0.000 mg/pkg** |
| **Sum of Cannabinoids Per Package:** | **56.747 mg/pkg** |

## POT-001: Cannabinoids by HPLC-DAD

| Analyte | Amt (mg/pkg) | Amt (%) | Amt (mg/g) | LOD/LOQ (mg/g) | Analyte | Amt (mg/pkg) | Amt (%) | Amt (mg/g) | LOD/LOQ (mg/g) |
|---|---|---|---|---|---|---|---|---|---|
| **CBC** | 2.5542 | 0.198 | 1.98 | 0.022/0.074 | **CBN** | < LOQ | < LOQ | < LOQ | 0.026/0.086 |
| **CBCA** | ND | ND | ND | 0.031/0.101 | **CBNA** | ND | ND | ND | 0.012/0.039 |
| **CBCV** | ND | ND | ND | 0.018/0.060 | **CBT** | ND | ND | ND | 0.020/0.065 |
| **CBD** | 0.0903 | 0.007 | 0.07 | 0.007/0.024 | **$\Delta^8$ + $\Delta^9$-THC*** | 50.2584 | 3.896 | 38.96 | |
| **CBDA** | ND | ND | ND | 0.010/0.034 | **$\Delta^8$-THC** | ND | ND | ND | 0.278/0.916 |
| **CBDV** | ND | ND | ND | 0.025/0.081 | **$\Delta^9$-THC** | 50.2584 | 3.896 | 38.96 | 0.264/0.871 |
| **CBDVA** | ND | ND | ND | 0.011/0.037 | **THCA** | ND | ND | ND | 0.010/0.032 |
| **CBG** | 3.4701 | 0.269 | 2.69 | 0.018/0.059 | **THCV** | 0.3741 | 0.029 | 0.29 | 0.012/0.039 |
| **CBGA** | ND | ND | ND | 0.016/0.052 | **THCVA** | ND | ND | ND | 0.016/0.054 |
| **CBL** | ND | ND | ND | 0.016/0.052 | **Total THC**** | 50.2584 | 3.896 | 38.96 | |
| **CBLA** | ND | ND | ND | 0.006/0.021 | **Total CBD**** | 0.0903 | 0.007 | 0.07 | |

* Beyond scope of accreditation

**Total THC = THCa * 0.877 + d9-THC; Total CBD = CBDa * 0.877 + CBD; NR= Not Reported, ND= Not Detected, *Reported by Dry Mass*; *analytical instrumentation used Cannabinoids: UHPLC-DAD, Moisture: Mass by Drying, Water Activity: Water Activity Meter, Foreign: Microscope* *Density tested at a temperature range between 19-24 °C, *Water Activity tested at a humidity range between 0-90% Relative Humidity. All OA samples are sampled by the client, All Michigan State Compliant samples sampled using SAMPL-SOP-001.**



https://lims.tagleaf.com/coa_/wOEMVrZjvM

Results Certified By: David Egerton
Lab Director, Infinite Chemical Analysis Labs MI
May 27, 2025

## GCP-001: Chemical Residues by GC-MS/MS

| Analyte | Amt (µg/g) | Limit (µg/g) | LOD/LOQ (µg/g) | Pass/Fail |
|---|---|---|---|---|
| Chlorfenapyr | ND | 1 | 0.036/0.108 | Pass |
| Cyfluthrin | ND | 1 | 0.058/0.174 | Pass |
| Cypermethrin | ND | 1 | 0.045/0.135 | Pass |
| Methyl parathion | ND | 0.2 | 0.014/0.042 | Pass |

| Analyte | Amt (µg/g) | Limit (µg/g) | LOD/LOQ (µg/g) | Pass/Fail |
|---|---|---|---|---|
| MGK-264 | ND | 0.2 | 0.016/0.048 | Pass |
| MGK-264 I | ND | | | N/A |
| MGK-264 II | ND | | | N/A |

## LCP-001: Chemical Residues by LC-MS/MS

| Analyte | Amt (µg/g) | Limit (µg/g) | LOD/LOQ (µg/g) | Pass/Fail |
|---|---|---|---|---|
| Abamectin | ND | 0.5 | 0.012/0.041 | Pass |
| Acephate | ND | 0.4 | 0.004/0.014 | Pass |
| Acequinocyl | ND | 2 | 0.006/0.020 | Pass |
| Acetamiprid | ND | 0.2 | 0.002/0.011 | Pass |
| Aldicarb | ND | 0.4 | 0.006/0.019 | Pass |
| Azoxystrobin | ND | 0.2 | 0.002/0.011 | Pass |
| Bifenazate | ND | 0.2 | 0.004/0.013 | Pass |
| Bifenthrin | ND | 0.2 | 0.005/0.017 | Pass |
| Boscalid | ND | 0.4 | 0.003/0.012 | Pass |
| Carbaryl | ND | 0.2 | 0.004/0.015 | Pass |
| Carbofuran | ND | 0.2 | 0.001/0.013 | Pass |
| Chlorantraniliprole | ND | 0.2 | 0.004/0.012 | Pass |
| Chlorpyrifos | ND | 0.2 | 0.002/0.011 | Pass |
| Clofentezine | ND | 0.2 | 0.003/0.012 | Pass |
| Daminozide | ND | 1 | 0.005/0.016 | Pass |
| Diazinon | ND | 0.2 | 0.003/0.011 | Pass |
| Dichlorvos | ND | 1 | 0.002/0.011 | Pass |
| Dimethoate | ND | 0.2 | 0.002/0.011 | Pass |
| Ethoprophos | ND | 0.2 | 0.002/0.011 | Pass |
| Etofenprox | ND | 0.4 | 0.003/0.011 | Pass |
| Etoxazole | ND | 0.2 | 0.002/0.012 | Pass |
| Fenoxycarb | ND | 0.2 | 0.003/0.012 | Pass |
| Fenpyroximate | ND | 0.4 | 0.002/0.012 | Pass |
| Fipronil | ND | 0.4 | 0.003/0.012 | Pass |
| Flonicamid | ND | 1 | 0.003/0.011 | Pass |
| Fludioxonil | ND | 0.4 | 0.008/0.027 | Pass |
| Hexythiazox | ND | 1 | 0.003/0.011 | Pass |
| Imazalil | ND | 0.2 | 0.007/0.023 | Pass |
| Imidacloprid | ND | 0.4 | 0.007/0.024 | Pass |
| Kresoxim-methyl | ND | 0.4 | 0.006/0.021 | Pass |

| Analyte | Amt (µg/g) | Limit (µg/g) | LOD/LOQ (µg/g) | Pass/Fail |
|---|---|---|---|---|
| Malathion | ND | 0.2 | 0.003/0.011 | Pass |
| Metalaxyl | ND | 0.2 | 0.002/0.012 | Pass |
| Methiocarb | ND | 0.2 | 0.001/0.013 | Pass |
| Methomyl | ND | 0.4 | 0.002/0.013 | Pass |
| Myclobutanil | ND | 0.2 | 0.004/0.013 | Pass |
| Naled | ND | 0.5 | 0.004/0.014 | Pass |
| Oxamyl | ND | 1 | 0.003/0.012 | Pass |
| Paclobutrazol | ND | 0.4 | 0.002/0.012 | Pass |
| Permethrin | ND | 0.2 | | Pass |
| Permethrin cis | ND | | 0.002/0.005 | N/A |
| Permethrin trans | ND | | 0.006/0.020 | N/A |
| Phosmet | ND | 0.2 | 0.003/0.011 | Pass |
| Prallethrin | ND | 0.2 | 0.006/0.019 | Pass |
| Propiconazole | ND | 0.4 | 0.002/0.011 | Pass |
| Propoxur | ND | 0.2 | 0.003/0.013 | Pass |
| Pyrethrins | ND | 1 | | Pass |
| Pyrethrins Cinerin I | ND | | 0.003/0.009 | N/A |
| Pyrethrins Jasmolin I | ND | | 0.001/0.003 | N/A |
| Pyrethrins Pyrethrin I | ND | | 0.002/0.006 | N/A |
| Pyridaben | ND | 0.2 | 0.003/0.011 | Pass |
| Spinosad | ND | 0.2 | | Pass |
| Spinosad A | ND | | 0.003/0.009 | N/A |
| Spinosad D | ND | | 0.001/0.003 | N/A |
| Spiromesifen | ND | 0.2 | 0.005/0.016 | Pass |
| Spirotetramat | ND | 0.2 | 0.003/0.012 | Pass |
| Spiroxamine | ND | 0.4 | 0.005/0.015 | Pass |
| Tebuconazole | ND | 0.4 | 0.003/0.011 | Pass |
| Thiacloprid | ND | 0.2 | 0.002/0.011 | Pass |
| Thiamethoxam | ND | 0.2 | 0.003/0.011 | Pass |
| Trifloxystrobin | ND | 0.2 | 0.001/0.012 | Pass |

## RS-001: Residual Solvents by HS-GC-MS

| Analyte | Amt (µg/g) | Limit (µg/g) | LOD/LOQ (µg/g) | Pass/Fail |
|---|---|---|---|---|
| 1,2-Dichloroethane | ND | 5 | 0.100/0.290 | Pass |
| 2,2-Dimethylbutane* | ND | 290 | 0.355/1.065 | Pass |
| 2,2-Dimethylpropane | ND | | 0.153/0.460 | N/A |
| 2,3-Dimethylbutane* | ND | 290 | 0.287/0.860 | Pass |
| 2-Methylbutane | ND | 5000 | 0.271/0.814 | Pass |
| 2-Methylpentane* | ND | 290 | 0.258/0.774 | Pass |
| 3-Methylpentane | ND | 290 | 0.440/1.319 | Pass |
| Acetone | < LOQ | 5000 | 14.700/120.000 | Pass |
| Acetonitrile | ND | 410 | 0.800/12.000 | Pass |
| Benzene | ND | 2 | 0.100/0.310 | Pass |
| Butane | ND | 5000 | | Pass |
| Butanes all isomers* | ND | 5000 | | Pass |
| Chloroform | ND | 60 | 0.090/0.280 | Pass |
| Ethanol | ND | 5000 | 1.030/25.000 | Pass |
| Ethyl acetate | ND | 5000 | 0.330/0.980 | Pass |

| Analyte | Amt (µg/g) | Limit (µg/g) | LOD/LOQ (µg/g) | Pass/Fail |
|---|---|---|---|---|
| Ethylene oxide | ND | 50 | 1.250/3.750 | Pass |
| Ethyl ether | ND | 5000 | 0.380/1.160 | Pass |
| Heptane | ND | 5000 | 2.060/6.190 | Pass |
| Hexane | ND | 290 | | Pass |
| Hexanes all isomers* | ND | 290 | | Pass |
| Isobutane* | ND | 5000 | 0.178/0.535 | Pass |
| Isopropyl alcohol | 68.352 | 5000 | 0.760/20.000 | Pass |
| Methanol | ND | 3000 | 7.160/50.000 | Pass |
| Methylene chloride | ND | 600 | 1.000/3.000 | Pass |
| Pentane | ND | 5000 | | Pass |
| Pentanes all isomers* | ND | 5000 | | Pass |
| Propane | ND | 5000 | 1.400/4.190 | Pass |
| Toluene | ND | 890 | 0.430/1.290 | Pass |
| Trichloroethylene | ND | 80 | 0.150/0.440 | Pass |
| Total xylenes | ND | 2170 | 0.260/0.770 | Pass |

* Beyond scope of accreditation

## MIC-002: Quantitative Microbial Analysis by Petrifilm Plating

| Analyte | Amt (CFU/g) | Pass/Fail |
|---|---|---|
| Coliforms | ND | Pass |

| Analyte | Amt (CFU/g) | Pass/Fail |
|---|---|---|
| Yeast & Mold | ND | Pass |

## MIC-004: Targeted Microbial Detection by qPCR

| Analyte | Amt (CFU/g) | Pass/Fail |
|---|---|---|

| Analyte | Amt (CFU/g) | Pass/Fail |
|---|---|---|



https://lims.tagleaf.com/coa_/wOEMVrZjvM

Results Certified By: David Egerton
Lab Director, Infinite Chemical Analysis Labs MI
May 27, 2025

| | | |
|---|---|---|
| **Aspergillus spp.** | ND | Pass |
| **Salmonella spp.** | ND | Pass |
| **Shiga toxin-producing E. coli** | ND | Pass |

## HM-001: Heavy Metals by ICP-MS

| Analyte | Amt (µg/g) | Limit (µg/g) | LOD/LOQ (µg/g) | Pass/Fail |
|---|---|---|---|---|
| **Arsenic** | < LOQ | 1.5 | 0.002/0.034 | Pass |
| **Cadmium** | ND | 0.5 | 0.002/0.005 | Pass |
| **Chromium** | < LOQ | 2 | 0.052/0.156 | Pass |
| **Copper** | 0.048 | | 0.006/0.019 | N/A |
| **Lead** | 0.023 | 0.5 | 0.006/0.017 | Pass |
| **Mercury** | ND | 3 | 0.003/0.014 | Pass |
| **Nickel** | 0.151 | | 0.016/0.048 | N/A |

## Notes

**Jasmine Huffaker**
May 27, 2025

**Cannabinoids by HPLC-DAD**
*CBC, CBCA, CBCV, CBDV,CBDVA,CBGA,CBL, CBLA,CBNA,CBT,THCV,THCVA have not been evaluated by the CRA and are for informational purposes only.

## Accreditations

PJLA
Testing
Accreditation #95560

### PJLA Accredited

**LCP-001: Chemical Residues by LC-MS/MS**
Abamectin, Acephate, Acequinocyl, Acetamiprid, Aldicarb, Azoxystrobin, Bifenazate, Bifenthrin, Boscalid, Carbaryl, Carbofuran, Chlorantraniliprole, Chlorpyrifos, Clofentezine, Daminozide, Diazinon, Dichlorvos, Dimethoate, Ethoprophos, Etofenprox, Etoxazole, Fenoxycarb, Fenpyroximate, Fipronil, Flonicamid, Fludioxonil, Hexythiazox, Imazalil, Imidacloprid, Kresoxim-methyl, Malathion, Metalaxyl, Methiocarb, Methomyl, Myclobutanil, Naled, Oxamyl, Paclobutrazol, Permethrin, Permethrin cis, Permethrin trans, Phosmet, Prallethrin, Propiconazole, Propoxur, Pyrethrins, Pyrethrins Cinerin I, Pyrethrins Jasmolin I, Pyrethrins Pyrethrin I, Pyridaben, Spinosad, Spinosad A, Spinosad D, Spiromesifen, Spirotetramat, Spiroxamine, Tebuconazole, Thiacloprid, Thiamethoxam, Trifloxystrobin

**RS-001: Residual Solvents by HS-GC-MS**
1,2-Dichloroethane, 2,2-Dimethylpropane, 2-Methylbutane, 3-Methylpentane, Acetone, Acetonitrile, Benzene, Butane, Chloroform, Ethanol, Ethyl acetate, Ethyl ether, Ethylene oxide, Heptane, Hexane, Isopropyl alcohol, Methanol, Methylene chloride, Pentane, Propane, Toluene, Total xylenes, Trichloroethylene

**POT-001: Cannabinoids by HPLC-DAD**
CBC, CBCA, CBCV, CBD, CBDA, CBDV, CBDVA, CBG, CBGA, CBL, CBLA, CBN, CBNA, CBT, Delta-8-THC, Delta-9-THC, THCA, THCV, THCVA, Total CBD, Total THC

**GCP-001: Chemical Residues by GC-MS/MS**
Chlorfenapyr, Cyfluthrin, Cypermethrin, MGK-264, MGK-264 I, MGK-264 II, Methyl parathion

**MIC-004: Targeted Microbial Detection by qPCR**
Aspergillus spp., Salmonella spp., Shiga toxin-producing E. coli

**HM-001: Heavy Metals by ICP-MS**
Arsenic, Cadmium, Chromium, Copper, Lead, Mercury, Nickel

**FFM-001: Foreign Matter by Microscopic Inspection**
Inorganic Matter, Organic Matter

**MIC-002: Quantitative Microbial Analysis by Petrifilm Plating**
Coliforms, Yeast & Mold



https://lims.tagleaf.com/coa_/wOEMVrZjvM

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