


**UTAH DEPARTMENT OF AGRICULTURE AND FOOD**  
 UNIFIED STATE LABORATORY  
 4451 SOUTH 2700 WEST  
 TAYLORSVILLE, UTAH 84129

**CERTIFICATE OF ANALYSIS**

| Sample Information     |                           |                         |             | Authorization:   |
|------------------------|---------------------------|-------------------------|-------------|--|
| <b>Producer:</b>       | Standard Wellness of Utah | <b>Sample Number:</b>   | F0277       | <br>Brandon Forsyth, PhD<br>State Chemist |
| <b>Description:</b>    | MAC                       | <b>MJ Batch Number:</b> | MAC1210329H |  |
| <b>Collected By:</b>   | Aleisha Baker             | <b>Date Received:</b>   | 04/19/2021  |  |
| <b>Date Collected:</b> | 04/19/2021                | <b>Issue Date:</b>      | 04/27/2021  |  |

Requested Testing:

|                |                                     |                   |                                     |
|----------------|-------------------------------------|-------------------|-------------------------------------|
| Cannabinoids   | <input checked="" type="checkbox"/> | Pesticide         | <input checked="" type="checkbox"/> |
| Foreign Matter | <input checked="" type="checkbox"/> | Heavy Metals      | <input checked="" type="checkbox"/> |
| Microbial Life | <input checked="" type="checkbox"/> | Residual Solvents | <input type="checkbox"/>            |
| Water Activity | <input checked="" type="checkbox"/> | Mycotoxin         | <input type="checkbox"/>            |
| Moisture       | <input checked="" type="checkbox"/> |                   |                                     |

**Cannabinoid Analysis**

*Analysis performed using High Performance Liquid Chromatography (HPLC)*

| Analyte | % (w/w) | mg/g   | % from COA                      |         |
|---------|---------|--------|---------------------------------|---------|
| Δ9-THC  | 0.80%   | 8.00   | Total THC                       | 24.7536 |
| THCA    | 27.22%  | 272.20 | D9THC                           | 0.8     |
| Δ8-THC  | NQ      | NQ     | D9THCA                          | 27.22   |
| THCV    | NQ      | NQ     | D8THC                           |         |
| CBD     | ND      | ND     | THCV                            |         |
| CBDV    | 0.06%   | 0.60   | CBC                             |         |
| CBDV    | ND      | ND     | CBD                             | 0.14    |
| CBN     | ND      | ND     | CBDA                            | 0.06    |
| CBG     | ND      | ND     | CBDV                            |         |
| CBGA    | 0.17%   | 1.70   | CBGA                            | 0.17    |
| CBC     | ND      | ND     | CBN                             |         |
| CBCA    | ND      | ND     | Total Cannabinoids for LT 28.39 |         |

**Foreign Matter Analysis**

*Analysis performed by visual inspection aided by magnification*

| Analyte        | Result | Foreign Matter Found | Status |
|----------------|--------|----------------------|--------|
| Foreign Matter | ND     | NA                   | PASS   |

## Moisture Content & Water Activity

*Analysis performed using thermo - gravametric analysis*

| Measurement          | Result |
|----------------------|--------|
| Moisture Content (%) | 13.09% |

*Analysis performed using chilled mirror dew point sensor*

| Measurement    | Result | Action Level | Status |
|----------------|--------|--------------|--------|
| Water Activity | 0.49   | 0.65         | PASS   |

## Pesticide Analysis

*Analysis performed using Liquid Chromatography - Mass Spectrometry (LC-MS/MS)*

| Analyte             | CAS Number  | Result (ppm) | Action Level (ppm) | Status |
|---------------------|-------------|--------------|--------------------|--------|
| Abamectin           | 71751-41-2  | ND           | 0.5                | PASS   |
| Acephate            | 30560-19-1  | ND           | 0.4                | PASS   |
| Acequinocyl         | 57960-19-7  | ND           | 2                  | PASS   |
| Acetamiprid         | 135410-20-7 | ND           | 0.2                | PASS   |
| Aldicarb            | 0116-06-03  | ND           | 0.4                | PASS   |
| Azoxystrobin        | 131860-33-8 | ND           | 0.2                | PASS   |
| Bifenazate          | 149877-41-8 | ND           | 0.2                | PASS   |
| Bifenthrin          | 82657-04-03 | ND           | 0.2                | PASS   |
| Boscalid            | 188425-85-6 | ND           | 0.4                | PASS   |
| Carbaryl            | 63-25-2     | ND           | 0.2                | PASS   |
| Carbofuran          | 1563-66-2   | ND           | 0.2                | PASS   |
| Chlorantraniliprole | 500008-45-7 | ND           | 0.2                | PASS   |
| Chlorfenapyr        | 122453-73-0 | ND           | 1                  | PASS   |
| Chlorpyrifos        | 2921-88-2   | ND           | 0.2                | PASS   |
| Clofentezine        | 74115-24-5  | ND           | 0.2                | PASS   |
| Cyfluthrin          | 68359-37-5  | ND           | 1                  | PASS   |
| Cypermethrin        | 52315-07-08 | ND           | 1                  | PASS   |
| Daminozide          | 1596-84-5   | ND           | 1                  | PASS   |
| Dichlorvos          | 62-73-7     | ND           | 0.1                | PASS   |
| Diazinon            | 333-41-5    | ND           | 0.2                | PASS   |
| Dimethoate          | 60-51-5     | ND           | 0.2                | PASS   |
| Ethoprophos         | 13194-48-4  | ND           | 0.2                | PASS   |
| Etofenprox          | 80844-07-01 | ND           | 0.4                | PASS   |
| Etoxazole           | 153233-91-1 | ND           | 0.2                | PASS   |
| Fenoxycarb          | 72490-01-08 | ND           | 0.2                | PASS   |
| Fenpyroximate       | 134098-61-6 | ND           | 0.4                | PASS   |
| Fipronil            | 120068-37-3 | ND           | 0.4                | PASS   |
| Flonicamid          | 158062-67-0 | ND           | 1                  | PASS   |
| Fludioxonil         | 131341-86-1 | ND           | 0.4                | PASS   |
| Hexythiazox         | 78587-05-0  | ND           | 1                  | PASS   |
| Imazilil            | 35554-44-0  | ND           | 0.2                | PASS   |

**Pesticide Analysis (cont.)**

| Analyte            | CAS Number  | Result (ppm) | Action Level (ppm) | Status |
|--------------------|-------------|--------------|--------------------|--------|
| Imidacloprid       | 138261-41-3 | ND           | 0.4                | PASS   |
| Kresoxim-methyl    | 143390-89-0 | ND           | 0.4                | PASS   |
| Malathion          | 121-75-5    | ND           | 0.2                | PASS   |
| Metalaxyl          | 57837-19-1  | ND           | 0.2                | PASS   |
| Methiocarb         | 2032-65-7   | ND           | 0.2                | PASS   |
| Methomyl           | 16752-77-5  | ND           | 0.4                | PASS   |
| Methyl parathion   | 298-00-0    | ND           | 0.2                | PASS   |
| MGK-264            | 113-48-4    | ND           | 0.2                | PASS   |
| Myclobutanil       | 88671-89-0  | ND           | 0.2                | PASS   |
| Naled              | 300-76-5    | ND           | 0.5                | PASS   |
| Oxamyl             | 23135-22-0  | ND           | 1                  | PASS   |
| Paclobutrazol      | 76738-62-0  | ND           | 0.4                | PASS   |
| Permethrins        | 52645-53-1  | ND           | 0.2                | PASS   |
| Phosmet            | 0732-11-6   | ND           | 0.2                | PASS   |
| Piperonyl Butoxide | 51-03-6     | ND           | 2                  | PASS   |
| Prallethrin        | 23031-36-9  | ND           | 0.2                | PASS   |
| Propiconazole      | 60207-90-1  | ND           | 0.4                | PASS   |
| Propoxur           | 114-26-1    | ND           | 0.2                | PASS   |
| Pyrethrins         | 8003-34-7   | ND           | 1                  | PASS   |
| Pyridaben          | 96489-71-3  | ND           | 0.2                | PASS   |
| Spinosad           | 168316-95-8 | ND           | 0.2                | PASS   |
| Spiromesifen       | 283594-90-1 | ND           | 0.2                | PASS   |
| Spirotetramat      | 203313-25-1 | ND           | 0.2                | PASS   |
| Spiroxamine        | 118134-30-8 | ND           | 0.4                | PASS   |
| Tebuconazole       | 80443-41-0  | ND           | 0.4                | PASS   |
| Thiacloprid        | 111988-49-9 | ND           | 0.2                | PASS   |
| Thiamethoxam       | 153719-23-4 | ND           | 0.2                | PASS   |
| Trifloxystrobin    | 141517-21-7 | ND           | 0.2                | PASS   |

**Heavy Metal Analysis**

*Analysis performed using Inductively Coupled Plasma - Mass Spectrometry (ICP-MS)*

| Analyte | Result (ppm) | Action Level (ppm) | Status |      |
|---------|--------------|--------------------|--------|------|
| Arsenic | 7440-38-2    | ND                 | 2      | PASS |
| Cadmium | 7440-43-9    | ND                 | 0.82   | PASS |
| Lead    | 7439-92-1    | ND                 | 1.2    | PASS |
| Mercury | 7439-97-6    | ND                 | 0.4    | PASS |

## Microbial Analysis

### Analysis performed using plating methods

| Analyte | Result (cfu/g) | Allowed Limit | Status |
|---------|----------------|---------------|--------|
| TYM     | NT             |               | --     |
| TAC     | 1000           | 100,000       | PASS   |

### Analysis performed using Polymerase Chain Reaction (PCR) methods

| Organism    | Result | Required                            | Status |
|-------------|--------|-------------------------------------|--------|
| E. coli     | ND     | <input checked="" type="checkbox"/> | PASS   |
| Salmonella  | ND     | <input checked="" type="checkbox"/> | PASS   |
| STEC        | NT     | <input type="checkbox"/>            | --     |
| Pseudomonas | NT     | <input type="checkbox"/>            | --     |
| Aspergillus | ND     | <input checked="" type="checkbox"/> | PASS   |
| Staph       | NT     | <input type="checkbox"/>            | --     |

Notes:

ND = Not Detected      NA = Not Applicable      NT = Not Tested      NQ = Not Quantifiable

- Results pertain only to the test sample listed in this report.

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*The analysis given above was made under applicable provisions of the Utah Code and is a true statement of the results of an examination of a sample submitted to the laboratory under the identification herein recorded. The results here recorded may not be used as an endorsement for a product.*