


**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>	F0472	 Brandon Forsyth, PhD State Chemist
<b>Description:</b>	Rosetta Stone	<b>MJ Batch Number:</b>	211008HA	
<b>Collected By:</b>	Xavier Matheson	<b>Date Received:</b>	12/14/2021	
<b>Date Collected:</b>	12/14/2021	<b>Issue Date:</b>	12/17/2021	

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"/> | Terpenes          | <input type="checkbox"/>            |

**Cannabinoid Analysis**

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

Analyte	% (w/w)	mg/g
Δ9-THC	0.91%	9.10
THCA	26.81%	268.10
Δ8-THC	NQ	NQ
THCV	NQ	NQ
CBD	0.13%	1.30
CBDA	0.03%	0.30
CBDV	ND	ND
CBN	0.04%	0.40
CBG	0.08%	0.80
CBGA	0.97%	9.70
CBC	0.03%	0.30
CBCA	0.49%	4.90

**Foreign Matter Analysis**

*Analysis performed by visual inspection aided by magnification*

Analyte	Result	Foreign Matter Found	Status
Foreign Matter	ND		PASS

## Moisture Content & Water Activity

*Analysis performed using thermo - gravametric analysis*

Measurement	Result
Moisture Content (%)	0.128

*Analysis performed using chilled mirror dew point sensor*

Measurement	Result	Action Level	Status
Water Activity	0.53	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
Imazlil	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	0.105	2	PASS
Cadmium	7440-43-9	ND	0.82	PASS
Lead	7439-92-1	0.177	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
TAC	60000	100,000	PASS
TYM	NT		--

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

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

Notes: Pathogen testing was not performed due to the global shortage of PCR clean pipette tips. For more information see <https://ag.utah.gov/2021/04/29/udaf-temporarily-adjusts-medical-cannabis-testing-protocols-due-to-global-shortages-of-laboratory-supplies/>.

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.*