



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

**CERTIFICATE OF ANALYSIS**

**Sample Information** **Authorization:**

**Producer:** Standard Wellness of Utah  
**Description:** MAC Shake  
**Collected By:** Ries Trenary  
**Date Collected:** 12/17/2021  
**Quantity Received:** 4 units

**Sample Number:** P0228  
**MJ Batch Number:** MAC1211110H  
**Date Received:** 12/20/2021  
**Issue Date:** 12/30/2021

*Brandon Forsyth*  
 Brandon Forsyth, PhD  
 State Chemist

Requested Testing:

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

**Cannabinoid Analysis**

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

Analyte	% (w/w)	mg/g
Δ9-THC	1.72%	17.20
THCA	15.29%	152.90
Δ8-THC	NQ	NQ
THCV	NQ	NQ
CBD	ND	ND
CBDA	0.01%	0.10
CBDV	ND	ND
CBN	0.03%	0.30
CBG	ND	ND
CBGA	0.25%	2.50
CBC	0.06%	0.60
CBCA	0.39%	3.90

Flower	Total THC	% from COA
Total Weight of Finished Product	15.1752	15.1752
3.5g	D9THC	1.72
	D9THCA	15.29
	D8THC	
	THCV	
	CBD	
	CBDA	0.01
	CBDV	
	CBN	0.03
	CBG	
	CBGA	0.25
	CBC	0.06
	CBCA	0.39
	Total Cannabinoids for LT	17.75

**Foreign Matter Analysis**

*Analysis performed by visual inspection aided by magnification*

Analyte	Result	Foreign Matter Found	Status
Foreign Matter	ND		PASS

## Microbial Analysis

### Analysis performed using plating methods

Analyte	Result (cfu/g)	Allowed Limit	Status
TAC	76500	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.

- This report may not be reproduced except in its entirety.

*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.*