


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	Sample Number:	F0478	 Brandon Forsyth, PhD State Chemist
Description:	MAC	MJ Batch Number:	MAC1211130H	
Collected By:	Ries Trenary	Date Received:	12/20/2021	
Date Collected:	12/17/2021	Issue Date:	12/28/2021	
Quantity Received:	10 g			

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	0.78%	7.80
THCA	19.14%	191.40
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	0.52%	5.20
CBC	0.05%	0.50
CBCA	0.32%	3.20

Flower	Total THC	% from COA
Total Weight of Finished Product		
3.5 g		
	Total THC	17.6232
	D9THC	0.78
	D9THCA	19.14
	D8THC	
	THCV	
	CBD	
	CBDA	0.01
	CBDV	
	CBN	0.03
	CBG	
	CBGA	0.52
	CBC	0.05
	CBCA	0.32
	Total Cannabinoids for LT	20.85

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 - gravimetric analysis

Measurement	Result
Moisture Content (%)	0.1213

Analysis performed using chilled mirror dew point sensor

Measurement	Result	Action Level	Status
Water Activity	0.47	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
TAC	<100	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.