

Prepared for:

**Transdermal Patch**
**MARYS NUTRITIONALS**

Batch ID or Lot Number: <b>1232</b>	Test: <b>Potency</b>	Reported: <b>9/10/21</b>	Location: 3251 N Revere Street Suite 200 Aurora, CO 80011
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Matrix: Unit	Test ID: T000161491	Started: 9/9/21	USDA License: N/A
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Status: N/A	Method: TM14 (HPLC-DAD): Potency - Full Spectrum Analysis, 0.3% THC (Colorado Panel)	Received: 09/03/2021 @ 09:21 AM	Sampler ID: N/A
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**CANNABINOID PROFILE**

Compound	LOD (mg)	LOQ (mg)	Result (mg)	Result (mg/g)	Notes
Delta 9-Tetrahydrocannabinolic acid (THCA-A)	0.036	0.103	ND	ND	# of Servings = 1 Sample Weight=0.676g
Delta 9-Tetrahydrocannabinol (Delta 9THC)	0.040	0.116	ND	ND	
Cannabidiolic acid (CBDA)	0.042	0.135	ND	ND	
Cannabidiol (CBD)	0.041	0.132	22.717	33.59	
Delta 8-Tetrahydrocannabinol (Delta 8THC)	0.044	0.128	ND	ND	
Cannabinolic Acid (CBNA)	0.025	0.073	ND	ND	
Cannabinol (CBN)	0.012	0.034	0.038	0.06	
Cannabigerolic acid (CBGA)	0.037	0.107	ND	ND	
Cannabigerol (CBG)	0.009	0.026	1.002	1.48	
Tetrahydrocannabivarinic Acid (THCVA)	0.032	0.091	ND	ND	
Tetrahydrocannabivarin (THCV)	0.008	0.023	0.022*	0.03*	
Cannabidivarinic Acid (CBDVA)	0.018	0.056	ND	ND	
Cannabidivarin (CBDV)	0.010	0.031	0.450	0.67	
Cannabichromenic Acid (CBCA)	0.014	0.041	ND	ND	
Cannabichromene (CBC)	0.016	0.045	ND	ND	
<b>Total Cannabinoids</b>			<b>24.229</b>	<b>35.82</b>	
Total Potential THC**			ND	ND	
Total Potential CBD**			22.717	33.59	

  
 Ryan Weems  
 10-Sep-2021  
 06:01 PM

  
 Daniel Weidensaul  
 10-Sep-21  
 6:07 PM

PREPARED BY / DATE

APPROVED BY / DATE

**Definitions**

% = % (w/w) = Percent (Weight of Analyte / Weight of Product)

\* Indicates a value below the Limit of Quantitation (LOQ) and above the Limit of Detection (LOD).

\*\* Total Potential THC/CBD is calculated using the following formulas to take into account the loss of a carboxyl group during decarboxylation step.

$$\text{Total THC} = \text{THC} + (\text{THCa} * (0.877)) \text{ and}$$

$$\text{Total CBD} = \text{CBD} + (\text{CBDa} * (0.877))$$

Total Cannabinoids result reflects the absolute sum of all cannabinoids detected.

ND = None Detected (Defined by Dynamic Range of the method)

Testing results are based solely upon the sample submitted to Botanacor Laboratories, LLC, in the condition it was received. Botanacor Laboratories, LLC warrants that all analytical work is conducted professionally in accordance with all applicable standard laboratory practices using validated methods. Data was generated using an unbroken chain of comparison to NIST traceable Reference Standards and Certified Reference Materials. This report may not be reproduced, except in full, without the written approval of Botanacor Laboratories, LLC.



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Certificate #4329.02

Prepared for:

**Transdermal Patch**
**MARYS NUTRITIONALS**

Batch ID or Lot Number: <b>1232</b>	Test: <b>Microbial Contaminants</b>	Reported: <b>9/7/21</b>	Location: 3251 N Revere Street Suite 200 Aurora, CO 80011
Matrix: Finished Product	Test ID: T000161492	Started: 9/3/21	USDA License: N/A
Status: N/A	Methods: TM25 (qPCR) TM24, TM26, TM27(Culture Plating): Microbial (Colorado Panel)	Received: 09/03/2021 @ 09:21 AM	Sampler ID: N/A

**MICROBIAL CONTAMINANTS DETERMINATION**

Contaminant	Method	LOD	LLOQ	ULOQ	Result	Notes
<b>Total Aerobic Count*</b>	TM-26, Culture Plating	10 <sup>2</sup> CFU/g	10 <sup>3</sup> CFU/g	1.5x10 <sup>5</sup> CFU/g	None Detected	Free from visual mold, mildew, and foreign matter
<b>Total Coliforms*</b>	TM-27, Culture Plating	10 <sup>2</sup> CFU/g	10 <sup>2</sup> CFU/g	1.5x10 <sup>4</sup> CFU/g	None Detected	
<b>Total Yeast and Mold*</b>	TM-24, Culture Plating	10 <sup>2</sup> CFU/g	10 <sup>2</sup> CFU/g	1.5x10 <sup>4</sup> CFU/g	None Detected	
<b>E. coli (STEC)</b>	TM-25, PCR	1 CFU/25 g	NA	NA	Absent	
<b>Salmonella</b>	TM-25, PCR	1 CFU/25 g	NA	NA	Absent	

  
 Carly Bader  
 9/7/2021  
 11:33:00 AM

  
 Tori King  
 9/7/2021  
 12:22:00 PM

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**Definitions**

LOD = Limit of Detection | LLOQ = Lower Limit of Quantitation | ULOQ = Upper Limit of Quantitation

 CFU/g = Colony Forming Units per Gram | STEC = Shiga Toxin-Producing *E. coli*

\* Values recorded in scientific notation, a common microbial practice of expressing numbers that are too large to be conveniently written in decimal form.

Examples:  
 10<sup>2</sup> = 100 CFU  
 10<sup>3</sup> = 1,000 CFU  
 10<sup>4</sup> = 10,000 CFU  
 10<sup>5</sup> = 100,000 CFU

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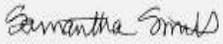
Prepared for:

**MARYS NUTRITIONALS**
**Transdermal Patch**

Batch ID or Lot Number: <b>1232</b>	Test: <b>Mycotoxins</b>	Reported: <b>9/13/21</b>	Location: 3251 N Revere Street Suite 200 Aurora, CO 80011
Matrix: Concentrate	Test ID: T000161495	Started: 9/10/21	USDA License: N/A
Status: N/A	Method: TM18 (UHPLC-QQQ LCMS/MS): Mycotoxins (Colorado Panel)	Received: 09/03/2021 @ 09:21 AM	Sampler ID: N/A

**MYCOTOXIN DETERMINATION**

Compound	Dynamic Range (ppb)	Result (ppb)	Notes
Ochratoxin A	1.9 - 129.6	ND	N/A
Aflatoxin B1	1 - 33.9	ND	
Aflatoxin B2	1 - 33.7	ND	
Aflatoxin G1	1 - 33.5	ND	
Aflatoxin G2	1 - 32.8	ND	
<b>Total Aflatoxins (B1, B2, G1, and G2)</b>		ND	

  
 Sam Smith  
 13-Sep-21  
 6:13 AM

PREPARED BY / DATE

  
 Alex Smith  
 13-Sep-21  
 7:07 AM

APPROVED BY / DATE

**Definitions**

ND = None Detected (Defined by Dynamic Range of the method)

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**MARYS NUTRITIONALS**

**Transdermal Patch**

Batch ID or Lot Number: <b>1232</b>	Test: <b>Metals</b>	Reported: <b>9/10/21</b>	Location: 3251 N Revere Street Suite 200 Aurora, CO 80011
Matrix: Unit Co	Test ID: T000161493	Started: 9/8/21	USDA License: N/A
Status: N/A	Method: TM19 (ICP-MS); Heavy Metals (Colorado Panel)	Received: 09/03/2021 @ 09:21 AM	Sampler ID: N/A

**HEAVY METALS DETERMINATION**

Compound	Dynamic Range (ppm)	Result (ppm)	Notes
Arsenic	0.048 - 4.85	ND	
Cadmium	0.047 - 4.66	ND	
Mercury	0.045 - 4.47	ND	
Lead	0.047 - 4.72	ND	

 Daniel Weidensaul  
10-Sep-21  
12:51 PM

 Ryan Weems  
10-Sep-21  
12:53 PM

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**Definitions**

ND = None Detected (Defined by Dynamic Range of the method)

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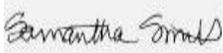
**Transdermal Patch**

**MARYS NUTRITIONALS**

Batch ID or Lot Number: <b>1232</b>	Test: <b>Residual Solvents</b>	Reported: <b>9/13/21</b>	Location: 3251 N Revere Street Suite 200 Aurora, CO 80011
Matrix: N/A	Test ID: T000161494	Started: 9/10/21	USDA License: N/A
Status: N/A	Methods: TM04 (GC-MS): Residual Solvents (Colorado Panel)	Received: 09/03/2021 @ 09:21 AM	Sampler ID: N/A

**RESIDUAL SOLVENTS DETERMINATION**

Solvent	Dynamic Range (ppm)	Result (ppm)	Notes
<b>Propane</b>	104 - 2079	*ND	
<b>Butanes</b> (Isobutane, n-Butane)	200 - 3992	*ND	
<b>Methanol</b>	74 - 1487	*ND	
<b>Pentane</b>	110 - 2199	*ND	
<b>Ethanol</b>	118 - 2369	*ND	
<b>Acetone</b>	121 - 2426	*ND	
<b>Isopropyl Alcohol</b>	126 - 2522	*ND	
<b>Hexane</b>	7 - 146	*ND	
<b>Ethyl Acetate</b>	116 - 2311	*ND	
<b>Benzene</b>	0 - 5	*ND	
<b>Heptanes</b>	116 - 2323	*ND	
<b>Toluene</b>	22 - 437	*ND	
<b>Xylenes</b> (m,p,o-Xylenes)	158 - 3154	*ND	

 Sam Smith  
13-Sep-21  
9:56 AM

 Ryan Weems  
13-Sep-21  
9:58 AM

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**Definitions**

\* ND = None Detected (Defined by Dynamic Range of the method)

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<b>LOT NUMBER</b>	1232
<b>BRAND</b>	Mary's Nutritionals
<b>PRODUCT NAME</b>	CBD Patch
<b>DATE OF MANUFACTURE</b>	08/20/2021
<b>EXPIRATION DATE</b>	08/20/2023