

Prepared for:

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


Batch ID or Lot Number: <b>1216</b>	Test: <b>Potency</b>	Reported: <b>8/23/21</b>	Location: 3251 N Revere Street Suite 200 Aurora, CO 80011
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Matrix: Unit	Test ID: T000157516	Started: 8/20/21	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: 08/16/2021 @ 02:25 PM	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	0.111	ND	ND	# of Servings = 1 Sample Weight=0.659g
Delta 9-Tetrahydrocannabinol (Delta 9THC)	0.040	0.126	ND	ND	
Cannabidiolic acid (CBDA)	0.060	0.135	ND	ND	
Cannabidiol (CBD)	0.058	0.132	22.575	34.27	
Delta 8-Tetrahydrocannabinol (Delta 8THC)	0.044	0.138	ND	ND	
Cannabinolic Acid (CBNA)	0.025	0.079	ND	ND	
Cannabinol (CBN)	0.012	0.036	0.036	0.05	
Cannabigerolic acid (CBGA)	0.037	0.116	ND	ND	
Cannabigerol (CBG)	0.009	0.028	1.019	1.55	
Tetrahydrocannabivarinic Acid (THCVA)	0.031	0.098	ND	ND	
Tetrahydrocannabivarin (THCV)	0.008	0.025	0.030	0.05	
Cannabidivarinic Acid (CBDVA)	0.025	0.056	ND	ND	
Cannabidivarin (CBDV)	0.014	0.031	0.437	0.66	
Cannabichromenic Acid (CBCA)	0.014	0.045	ND	ND	
Cannabichromene (CBC)	0.016	0.049	ND	ND	
<b>Total Cannabinoids</b>			<b>24.097</b>	<b>36.58</b>	
Total Potential THC**			ND	ND	
Total Potential CBD**			22.575	34.27	

  
 Daniel Weidensaul  
 23-Aug-2021  
 06:25 PM

  
 Ryan Weems  
 23-Aug-21  
 6:27 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:


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

Batch ID or Lot Number: <b>1216</b>	Test: <b>Microbial Contaminants</b>	Reported: <b>8/20/21</b>	Location: 3251 N Revere Street Suite 200 Aurora, CO 80011
Matrix: Finished Product	Test ID: T000157518	Started: 8/17/21	USDA License: N/A
Status: N/A	Methods: TM25 (qPCR) TM24, TM26, TM27(Culture Plating): Microbial (Colorado Panel)	Received: 08/16/2021 @ 02:25 PM	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	

  
 Brianne Maillot  
 8/20/2021  
 2:39:00 PM

  
 Sarah Henning  
 8/20/2021  
 4:08:00 PM

PREPARED BY / DATE

APPROVED BY / DATE

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

Batch ID or Lot Number: <b>1216</b>	Test: <b>Mycotoxins</b>	Reported: <b>8/24/21</b>	Location: 3251 N Revere Street Suite 200 Aurora, CO 80011
Matrix: Concentrate	Test ID: T000157521	Started: 8/23/21	USDA License: N/A
Status: N/A	Method: TM18 (UHPLC-QQQ LCMS/MS): Mycotoxins (Colorado Panel)	Received: 08/16/2021 @ 02:25 PM	Sampler ID: N/A

**MYCOTOXIN DETERMINATION**

Compound	Dynamic Range (ppb)	Result (ppb)	Notes
Ochratoxin A	3.4 - 122.4	ND	N/A
Aflatoxin B1	1 - 31.4	ND	
Aflatoxin B2	1 - 30.8	ND	
Aflatoxin G1	0.9 - 31	ND	
Aflatoxin G2	1.2 - 29.5	ND	
<b>Total Aflatoxins (B1, B2, G1, and G2)</b>		ND	

*Alex Smith*  
 Alex Smith  
 24-Aug-21  
 6:49 AM

PREPARED BY / DATE

*Samantha Smith*  
 Sam Smith  
 24-Aug-21  
 3:53 PM

APPROVED BY / DATE

**Definitions**

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

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Prepared for:

**Transdermal Patch**

**MARYS NUTRITIONALS**


Batch ID or Lot Number: **1216**      Test: **Residual Solvents**      Reported: **8/25/21**      Location: 3251 N Revere Street Suite 200 Aurora, CO 80011


Matrix: N/A      Test ID: T000157520      Started: 8/25/21      USDA License: N/A

Status: N/A      Methods: TM04 (GC-MS): Residual Solvents (Colorado Panel)      Received: 08/16/2021 @ 02:25 PM      Sampler ID: N/A

**RESIDUAL SOLVENTS DETERMINATION**

Solvent	Dynamic Range (ppm)	Result (ppm)	Notes
Propane	55 - 1099	*ND	
Butanes (Isobutane, n-Butane)	105 - 2099	*ND	
Methanol	42 - 849	*ND	
Pentane	60 - 1199	*ND	
Ethanol	62 - 1244	*ND	
Acetone	67 - 1346	*ND	
Isopropyl Alcohol	71 - 1413	*ND	
Hexane	4 - 82	*ND	
Ethyl Acetate	69 - 1370	*ND	
Benzene	0 - 3	*ND	
Heptanes	64 - 1290	*ND	
Toluene	12 - 247	*ND	
Xylenes (m,p,o-Xylenes)	91 - 1818	*ND	

 Ryan Weems  
25-Aug-21  
5:31 PM

 Sam Smith  
25-Aug-21  
5:34 PM

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**Definitions**

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

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Prepared for:

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


Batch ID or Lot Number: <b>1216</b>	Test: <b>Metals</b>	Reported: <b>8/20/21</b>	Location: 3251 N Revere Street Suite 200 Aurora, CO 80011
Matrix: Unit Co	Test ID: T000157519	Started: 8/19/21	USDA License: N/A
Status: N/A	Method: TM19 (ICP-MS): Heavy Metals (Colorado Panel)	Received: 08/16/2021 @ 02:25 PM	Sampler ID: N/A

**HEAVY METALS DETERMINATION**

Compound	Dynamic Range (ppm)	Result (ppm)	Notes
Arsenic	0.045 - 4.47	ND	
Cadmium	0.044 - 4.43	ND	
Mercury	0.044 - 4.38	ND	
Lead	0.041 - 4.14	ND	


 Ryan Weems  
 20-Aug-21  
 9:26 AM

PREPARED BY / DATE


 Sam Smith  
 20-Aug-21  
 9:29 AM

APPROVED BY / DATE

**Definitions**

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

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Prepared for:

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


Batch ID or Lot Number: <b>1216</b>	Test: <b>Pesticides</b>	Reported: <b>8/20/21</b>	Location: 3251 N Revere Street Suite 200 Aurora, CO 80011
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Matrix: Concentrate	Test ID: T000157517	Started: 8/19/21	USDA License: N/A
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Status: N/A	Method: TM17(LC-QQQ LC MS/MS):	Received: 08/16/2021 @ 02:25 PM	Sampler ID: N/A
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**PESTICIDE DETERMINATION**

Compound	LOQ (ppb)	Result (ppb)	Compound	LOQ (ppb)	Result (ppb)	Compound	LOQ (ppb)	Result (ppb)
Acephate	33	ND	Fenoxycarb	34	ND	Paclobutrazol	34	ND
Acetamiprid	34	ND	Fipronil	22	ND	Permethrin	292	ND
Avermectin	378	ND	Flonicamid	45	ND	Phosmet	33	ND
Azoxystrobin	37	ND	Fludioxonil	292	ND	Prophos	285	ND
Bifenazate	40	ND	Hexythiazox	34	ND	Propoxur	34	ND
Boscalid	34	ND	Imazalil	286	ND	Pyridaben	303	ND
Carbaryl	30	ND	Imidacloprid	35	ND	Spinosad A	27	ND
Carbofuran	34	ND	Kresoxim-methyl	150	ND	Spinosad D	56	ND
Chlorantraniliprole	32	ND	Malathion	310	ND	Spiromesifen	275	ND
Chlorpyrifos	500	ND	Metalaxyl	36	ND	Spirotetramat	258	ND
Clofentezine	305	ND	Methiocarb	32	ND	Spiroxamine 1	14	ND
Diazinon	296	ND	Methomyl	35	ND	Spiroxamine 2	18	ND
Dichlorvos	277	ND	MGK 264 1	165	ND	Tebuconazole	322	ND
Dimethoate	33	ND	MGK 264 2	126	ND	Thiacloprid	35	ND
E-Fenpyroximate	296	ND	Myclobutanil	32	ND	Thiamethoxam	34	ND
Etofenprox	35	ND	Naled	36	ND	Trifloxystrobin	36	ND
Etoxazole	317	ND	Oxamyl	1500	ND			


 Karen Winternheimer  
 8/20/2021  
 2:32:00 PM


 Sam Smith  
 8/20/2021  
 2:36:00 PM

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**Definitions**

LOQ = Limit of Quantification  
 ppb = Parts per Billion

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<b>LOT NUMBER</b>	1216
<b>BRAND</b>	Mary's Nutritionals
<b>PRODUCT NAME</b>	CBD PATCH
<b>DATE OF MANUFACTURE</b>	08/04/2021
<b>EXPIRATION DATE</b>	08/04/2023