



# Certificate of Analysis

Sample: DE20415012-003  
Harvest/Lot ID: 22101  
Batch#: CO HEMP - 22101  
Seed to Sale# 1A4000B00010D25000001480  
Batch Date: 04/11/22  
Sample Size Received: 12 gram  
Total Weight/Volume: N/A  
Retail Product Size: 12.5 gram  
ordered : 04/15/22  
sampled : 04/15/22  
Completed: 04/20/22  
Sampling Method: SOP-024


Apr 20, 2022 | Mary's Nutritionals  
License # 405R-00011  
3251 North Revere Street Suite 200  
Aurora, CO, 80239, US



**PASSED**  
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PRODUCT IMAGE	SAFETY RESULTS									MISC.
	 Pesticides <b>PASSED</b>	 Heavy Metals <b>PASSED</b>	 Microbials <b>PASSED</b>	 Mycotoxins <b>PASSED</b>	 Residuals Solvents <b>PASSED</b>	 Filtration <b>NOT TESTED</b>	 Water Activity <b>NOT TESTED</b>	 Moisture <b>NOT TESTED</b>	 Homogeneity <b>NOT TESTED</b>	 Terpenes <b>NOT TESTED</b>

 **Cannabidiol** **PASSED**

 <b>Total THC</b> <b>ND</b> Total THC/Container : 0 mg	 <b>Total CBD</b> <b>4.6221%</b> Total CBD/Container : 554.652 mg	 <b>Total Cannabinoids</b> <b>4.9577%</b> Total Cannabinoids/Container : 594.924 mg
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**Cannabinoid Profile Test**


Analyzed by <b>1843</b>	Weight 0.8282g	Extraction date : 04/18/22 04:04:45	Extracted By : 1642
Analysis Method -SOP-020 (R15)	Reviewed On - 04/19/22 13:36:57	Batch Date : 04/18/22 11:05:45	
Analytical Batch -DE003273POT	Instrument Used : Agilent 1100 "Falcor"	Running On : 04/18/22 17:15:25	

Dilution : 41  
Reagent : 032822.14; 041522.R07; 041822.01; 022222.R03; 021422.R16; 041522.R09  
Consumables : 24169051; 1154419; 00291464; R1KB54892; 304015242; 12211-108CC-108; 923C4-923AK; 5079-525C6-525E  
Full spectrum cannabinoid analysis utilizing High Performance Liquid Chromatography with DAD detection (HPLC-UV). Method SOP-022 (R13) for reporting. Lower limit of linearity for all cannabinoids is 1 mg/L.

**Label Claim - TESTED**

Analyte	LOD	Units	Result
TOTAL CBG	0.001	mg	TESTED
TOTAL CBN	0.001	mg	TESTED

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<p><b>Stephen Goldman</b> Lab Director State License # 405R-00011 405-00008 ISO Accreditation # 4331.01</p>	 Signature	<p>04/20/22 Signed On</p>
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# Certificate of Analysis

**PASSED**

Mary's Nutritionals

3251 North Revere Street Suite 200  
Aurora, CO, 80239, US  
Telephone: 7207631044  
Email: csullivan@dixieelixirs.com  
License # : 405R-00011

Sample : DE20415012-003

Harvest/Lot ID: 22101

Batch# : CO HEMP - 22101

Sampled : 04/15/22

Odered : 04/15/22

Sample Size Received : 12 gram

Total Weight/Volume : N/A

Completed : 04/20/22 Expires: 04/20/23

Sample Method : SOP-024

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## Pesticides

**PASSED**

Pesticides	LOD	Units	Action Level	Pass/Fail	Result
OTHER PESTICIDES	0.1	ppb	100	PASS	ND
AVERMECTINS	0.0271	ppb	70	PASS	ND
AZOXYSTROBIN	0.014	ppb	20	PASS	ND
BIFENAZATE	0.011	ppb	20	PASS	ND
ETOXAZOLE	0.006	ppb	10	PASS	ND
IMAZALIL	0.064	ppb	40	PASS	ND
IMIDACLOPRID	0.007	ppb	20	PASS	ND
MALATHION	0.011	ppb	50	PASS	ND
MYCLOBUTANIL	0.013	ppb	40	PASS	ND
PERMETHRINS	0.0131	ppb	40	PASS	ND
SPIROMESIFEN	0.049	ppb	30	PASS	ND
SPIROTETRAMAT	0.03	ppb	20	PASS	ND
TEBUCONAZOLE	0.01	ppb	10	PASS	ND
SPINOSADS	0.0134	ppb	60	PASS	ND



## Pesticides

**PASSED**

**Analysis Method** : -SOP-060 (R5)  
**Analytical Batch** : -DE003270PES  
**Instrument Used** : Sciex 6500 Qtrap - Pesticides  
**Running on :**  
**Analyzed by:** 1843      **Weight:** 0.1602g      **Extraction date:** 04/18/22 03:04:17      **Extracted by:** 1696  
**Dilution :** 25  
**Reagent :**  
**Consumables :**

**Reviewed On :** 04/19/22 15:08:08  
**Batch Date :** 04/16/22 14:08:35

Pesticide screen is performed using LC-MS which can screen down to below single digit ppb concentrations for regulated Pesticides via SOP-060 (R5). \*

Analyzed by:	Weight:	Extraction date:	Extracted by:
	g		

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**Stephen Goldman**  
 Lab Director  
 State License # 405R-00011  
 405-00008  
 ISO Accreditation # 4331.01

  
 \_\_\_\_\_  
 Signature

04/20/22  
 \_\_\_\_\_  
 Signed On



# Certificate of Analysis

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 License # : 405R-00011

Sample : DE20415012-003

Harvest/Lot ID: 22101

Batch# : CO HEMP - 22101

Sampled : 04/15/22

Odered : 04/15/22

Sample Size Received : 12 gram

Total Weight/Volume : N/A

Completed : 04/20/22 Expires: 04/20/23

Sample Method : SOP-024

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## Residual Solvents

PASSED

Solvent	LOD	Units	Action Level	Pass/Fail	Result
PROPANE	4.21421	ppm	1000	PASS	ND
ETHYL ACETATE	2.79218	ppm	1000	PASS	ND
BUTANES	15.794	ppm	1000	PASS	ND
BENZENE	0.47491	ppm	2	PASS	ND
METHANOL	1.27868	ppm	600	PASS	5.6888
HEPTANE	3.25945	ppm	1000	PASS	ND
PENTANES	13.828	ppm	1000	PASS	ND
TOLUENE	2.10881	ppm	180	PASS	ND
XYLENES	7.115	ppm	430	PASS	ND
ETHANOL	2.70106	ppm	1000000	PASS	ND
ACETONE	1.708	ppm	1000	PASS	ND
2-PROPANOL	1.58756	ppm	1000	PASS	93.2051
HEXANES	1.92798	ppm	60	PASS	ND



## Residual Solvents

PASSED

Analyzed by	Weight	Extraction date	Extracted By
1843	0.1346g	04/16/22 03:04:50	7

**Analysis Method -SOP-032 (R18)**  
**Analytical Batch -DE003261SOL**  
**Instrument Used : GC 5890**  
**Running On :**  
**Batch Date : 04/14/22 15:05:57**

**Reviewed On - 04/18/22 09:08:28**

Dilution : 1

Reagent : 041222.R06

Consumables : 24160453; 31726-2-1; 5079-525C6-525E

Residual solvents screening is performed using GCwhich can detect below single digit ppm concentrations. Currently we analyze for 15 Residual solvents.

**Stephen Goldman**

Lab Director

State License # 405R-00011

405-00008

ISO Accreditation # 4331.01



Signature

04/20/22

Signed On



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Harvest/Lot ID: 22101

Batch# : CO HEMP - 22101

Sampled : 04/15/22

Ordered : 04/15/22



Sample Size Received : 12 gram

Total Weight/Volume : N/A

Completed : 04/20/22 Expires: 04/20/23

Sample Method : SOP-024

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 <b>Microbials</b> <span style="float: right;"><b>PASSED</b></span>				 <b>Mycotoxins</b> <span style="float: right;"><b>PASSED</b></span>					
Analyte	LOD	Result	Pass / Fail	Analyte	LOD	Units	Result	Pass / Fail	Action Level
TOTAL YEAST AND MOLD	100	ND	PASS	AFLATOXINS		ppb			20
SHIGA TOXIN PRODUCING ESCHERICHIA COLI STEC	1	ND	PASS	AFLATOXIN B1	1.327	ppb	ND	PASS	20
SALMONELLA SPECIES	1	ND	PASS	AFLATOXIN B2	0.09	ppb	ND	PASS	20
MICROBIALS	10	ND	PASS	AFLATOXIN G1	0.18	ppb	ND	PASS	20
TOTAL AEROBIC	10	ND	PASS	AFLATOXIN G2	0.303	ppb	ND	PASS	20
TOTAL COLIFORM	10	ND	PASS	OCHRATOXIN A+	0.049	ppb	ND	PASS	20

**Analysis Method - SOP-061 (R2); SOP-062 (R2); SOP-063 (R1)**  
**Analytical Batch - DE003264MIC**  
**Instrument Used : Microbial - Full Panel**  
**Running on : 04/15/22 16:25:36**

**Reviewed On : 04/18/22 16:54:13**  
**Batch Date : 04/15/22 10:13:50**

**Analysis Method -SOP-060 (R5)**  
**Analytical Batch -DE003271MYC | Reviewed On - 04/19/22 15:07:46**  
**Instrument Used : Sciex 6500 Qtrap - Mycotoxins**  
**Running On : | Batch Date : 04/18/22 09:37:19**

**Analyzed by: 1843**    **Weight: 1.6g**    **Extraction date: 04/15/22 05:04:28**    **Extracted by: 5**

**Analyzed by: 1843**    **Weight: 0.1602g**    **Extraction date: 04/18/22 03:04:42**    **Extracted By: 1696**

**Dilution : 1**  
**Reagent : 022222.R07; 032222.R16; 041522.R08; 032922.R01; 041322.R05; 031622.R01; 022122.R11; 032322.R01; 091421.R01; 021022.04; 110821.04; 110821.02; 030322.01; 022522.04; 121521.31; 041222.R05**  
**Consumables : 16564-106C6-106H; 40898-021C4-021A1; 12211-108CC-108; 210622-688; CBJA91005; 1; NT10-1212; 20/08/30; 00105; 01860; CH\_2144311; 2; 3; 0000004355**

Aflatoxins B1, B2, G1, G2, and Ochratoxin A testing using LC-MS via SOP-060 (R5). Total Aflatoxins (Aflatoxin B1, B2, G1, G2) must be < 20µg/Kg. Ochratoxins must be < 5µg/Kg.

Microbiological testing for Fungal and Bacterial Identification via Polymerase Chain Reaction (PCR) methods and plating methods. If a pathogenic Escherichia Coli (STEC) or Salmonella is detected in 1g of a sample, the sample fails the microbiological-impurity testing.

## Heavy Metals **PASSED**

Metal	LOD	Unit	Result	Pass / Fail	Action Level
ARSENIC	0.002	ppm	ND	PASS	1.5
CADMIUM	0.001	ppm	ND	PASS	0.5
MERCURY	0.003	ppm	ND	PASS	1
LEAD	0.01	ppm	ND	PASS	1

**Analyzed by: 1843**    **Weight: 0.2186g**    **Extraction date: 04/18/22 04:04:48**    **Extracted By: 666**

**Analysis Method -SOP-050 (R5)**  
**Analytical Batch -DE003267HEA | Reviewed On - 04/20/22 11:09:53**  
**Instrument Used : Shimadzu 2030 ICP-MS**  
**Running On : | Batch Date : 04/15/22 14:47:46**

**Dilution : 50**  
**Reagent : 082721.13; 041522.R02; 041522.R01; 062121.04; 071620.05; 040622.R01; 040422.01**  
**Consumables : 210316-361-B; 114CB--114E; 12265-116CC-116; 234422**

Heavy Metals screening is performed using ICP-MS (Inductively Coupled Plasma - Mass Spectrometer) which can screen to below single digit ppb concentrations for regulated heavy metals using method SOP-050 (R5). Sample preparation for Heavy Metals Analysis via SOP-050 (R5).