



# Certificate of Analysis

Sample: DE20331005-004  
Harvest/Lot ID: 22088  
Batch#: CO HEMP - 22088  
Seed to Sale# 1A4000B00010D25000001402  
Batch Date: 03/30/22  
Sample Size Received: 91 gram  
Total Weight/Volume: N/A  
Retail Product Size: 92.1 gram  
ordered : 03/31/22  
sampled : 03/31/22  
Completed: 04/05/22  
Sampling Method: SOP-024

**PASSED**

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Apr 05, 2022 | Mary's Nutritionals

License # 405R-00011




3251 North Revere Street Suite 200

Aurora, CO, 80239, US



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>

 <b>Cannabinoid</b>	<b>PASSED</b>
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 <b>Total THC</b> <b>ND</b> Total THC/Container : 0 mg	 <b>Total CBD</b> <b>0.2353%</b> Total CBD/Container : 216.711 mg	 <b>Total Cannabinoids</b> <b>0.2353%</b> Total Cannabinoids/Container : 216.711 mg
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	TOTAL 9+10-THC	CBDV	CBDVA	CBG	CBD	CBDa	THCV	CBGA	CBN	EXO-THC	CBDQ	D9-THC	D8-THC	CBL	THCVA	CBC	D10-THC	CBNA	THCA	CBGA	CBLA	THC-O-ACETATE
%	ND	ND	ND	ND	0.2353	ND	ND	ND	ND	ND	ND	ND	ND	<0.002	<0.002	<0.008	ND	<0.002	ND	ND	ND	ND
mg/g	ND	ND	ND	ND	2.353	ND	ND	ND	ND	ND	ND	ND	ND	<0.02	<0.02	<0.08	ND	<0.02	ND	ND	ND	ND
LOQ	0.01	0.002	0.001	0.002	2.8E-5	1.1E-5	0.002	0.001	1.0E-6	0.000237	0.0148	2.2E-5	0.002	0	0	0.002	0.0129	0	1.0E-5	0.002	0.001	0.003
%	%	%	%	%	%	%	%	%	%	%	%	%	%	%	%	%	%	%	%	%	%	%

Cannabinoid Profile Test			
Analyzed by <b>1843</b>	Weight 1.0107g	Extraction date : 04/01/22 01:04:47	Extracted By : 1542
Analysis Method -SOP-020 (R15)		Reviewed On - 04/03/22 13:38:39	Batch Date : 04/01/22 09:26:28
Analytical Batch -DE003202POT Instrument Used : Agilent 1100 "Falcor" Running On :			

Dilution : 40  
Reagent : 032822.14; 033122.R01; 031822.01; 022222.R03; 021422.R16; 032422.R07  
Consumables : 24169051; 1154419; 00291464; 210622-688; 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.

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

  
Signature

04/05/22  
Signed On



# 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 : DE20331005-004

Harvest/Lot ID: 22088

Batch# : CO HEMP - 22088

Sampled : 03/31/22

Ordered : 03/31/22


Sample Size Received : 91 gram

Total Weight/Volume : N/A


Completed : 04/05/22 Expires: 04/05/23

Sample Method : SOP-024

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 <b>Pesticides</b> <span style="float: right;"><b>PASSED</b></span>					
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	8.0014
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

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**Stephen Goldman**  
Lab Director

State License # 405R-00011  
405-00008  
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Signature

04/05/22

Signed On



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 License # : 405R-00011

Sample : DE20331005-004

Harvest/Lot ID: 22088

Batch# : CO HEMP - 22088

Sampled : 03/31/22

Odered : 03/31/22

Sample Size Received : 91 gram

Total Weight/Volume : N/A

Completed : 04/05/22 Expires: 04/05/23

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	11.7154
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	<4.76268
HEXANES	1.92798	ppm	60	PASS	ND



## Residual Solvents

PASSED

Analyzed by	Weight	Extraction date	Extracted By
1843	0.2137g	04/01/22 03:04:56	666

**Analysis Method -SOP-032 (R18)**  
**Analytical Batch -DE003203SOL**  
**Instrument Used : GC 5890**  
**Running On :**  
**Batch Date : 04/01/22 09:55:56**

**Reviewed On - 04/04/22 16:08:50**

Dilution : 1

Reagent : 030422.R01; 040122.R05

Consumables : 210316-361-B; 24160453; 33120320183106; 61596-112C6-112E

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

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 405-00008  
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Signature

04/05/22

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Harvest/Lot ID: 22088

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Sample Size Received : 91 gram

Total Weight/Volume : N/A

Completed : 04/05/22 Expires: 04/05/23

Sample Method : SOP-024

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	<b>Microbials</b>	<b>PASSED</b>		<b>Mycotoxins</b>	<b>PASSED</b>
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Analyte	LOD	Result	Pass / Fail
TOTAL YEAST AND MOLD	100	ND	PASS
SHIGA TOXIN PRODUCING ESCHERICHIA COLI STEC	1	ND	PASS
SALMONELLA SPECIES	1	ND	PASS
MICROBIALS	10	ND	PASS
TOTAL AEROBIC	10	ND	PASS
TOTAL COLIFORM	10	ND	PASS

 Analysis Method -SOP-061 (R2); SOP-062 (R2); SOP-063 (R1)  
 Analytical Batch -DE003204MIC Batch Date : 04/01/22 10:23:11  
 Instrument Used : Microbial - Full Panel  
 Running On :

Analyzed by	Weight	Extraction date	Extracted By
1843	3.08g	04/04/22 12:04:12	5

Dilution : 1

 Reagent : 022221.75; 032822.R16; 033022.R11; 032822.04; 040422.R07;  
 032922.R01; 031622.R01; 022122.R11; 032322.R01; 091421.R01; 021022.02;  
 110821.04; 110821.02; 030322.01; 022522.04; 121521.31

 Consumables : 16564-106C6-106H; 40898-021C4-021AI; CBJA91005; 210622-688;  
 12211-108CC-108; 1; NT10-1212; 01860; 00105; CH\_2144311; 2; 3; 4

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.

Analyte	LOD	Units	Result	Pass / Fail	Action Level
AFLATOXINS		ppb			20
AFLATOXIN B1	1.327	ppb	ND	PASS	20
AFLATOXIN B2	0.09	ppb	ND	PASS	20
AFLATOXIN G1	0.18	ppb	ND	PASS	20
AFLATOXIN G2	0.303	ppb	ND	PASS	20
OCHRATOXIN A+	0.049	ppb	ND	PASS	20

Analysis Method -SOP-060 (R5)

Analytical Batch -DE003180MYC | Reviewed On - 04/02/22 16:03:02

Instrument Used : Sciex 6500 Qtrap - Mycotoxins

Running On : | Batch Date : 03/25/22 15:47:28

Analyzed by	Weight	Extraction date	Extracted By
1843	0.1869g	04/01/22 10:04:45	1696

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 &lt; 20µg/Kg. Ochratoxins must be &lt; 5µg/Kg.

	<b>Heavy Metals</b>	<b>PASSED</b>
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Metal	LOD	Unit	Result	Pass / Fail	Action Level
ARSENIC	0.002	ppm	<0.005	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	Weight	Extraction date	Extracted By
1843	0.2104g	04/01/22 12:04:33	666

Analysis Method -SOP-050 (R5)

Analytical Batch -DE003200HEA | Reviewed On - 04/02/22 15:19:00

Instrument Used : Shimadzu 2030 ICP-MS

Running On : 04/01/22 15:46:46 | Batch Date : 03/31/22 15:12:56

Dilution : 50

 Reagent : 082721.13; 032822.R02; 032822.R01; 062121.04; 071620.05;  
 032822.R17; 031822.01

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).