



Certificate of Analysis

Sample: DE20331005-005
Harvest/Lot ID: 22090
Batch#: CO HEMP - 22090
Seed to Sale# 1A4000B00010D25000001403
Batch Date: 03/31/22
Sample Size Received: 1 units
Total Weight/Volume: N/A
Retail Product Size: 0.6377 gram
ordered : 03/31/22
sampled : 03/31/22
Completed: 04/05/22
Sampling Method: SOP-024




PASSED
Page 1 of 4

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 PASSED	 Heavy Metals PASSED	 Microbials PASSED	 Mycotoxins PASSED	 Residuals Solvents PASSED	 Filtration NOT TESTED	 Water Activity NOT TESTED	 Moisture NOT TESTED	 Homogeneity NOT TESTED	 Terpenes NOT TESTED

 **Cannabinoid** **PASSED**

 Total THC ND Total THC/Container : 0 mg	 Total CBD 2.5461% Total CBD/Container : 16.236 mg	 Total Cannabinoids 2.6844% Total Cannabinoids/Container : 17.118 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	0.0731	ND	0.0615	2.5461	ND	ND	ND	0.0037	ND	ND	ND	ND	<0.002	<0.002	ND	ND	<0.002	ND	ND	ND	ND	ND
mg/unit	ND	0.4661	ND	0.3921	16.2364	ND	ND	ND	0.0235	ND	ND	ND	ND	<0.0127	<0.0127	ND	ND	<0.0127	ND	ND	ND	ND	ND
LOD	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 1843	Weight 0.6377g	Extraction date : 04/01/22 01:04:06	Extracted By : 1542
Analysis Method -SOP-020 (R15)		Reviewed On - 04/03/22 13:38:53	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		04/05/22
State License # 405R-00011 405-00008 ISO Accreditation # 4331.01	Signature	Signed On



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

Sample : DE20331005-005
Harvest/Lot ID: 22090

Batch# : CO HEMP - 22090
Sampled : 03/31/22
Odered : 03/31/22

Sample Size Received : 1 units
Total Weight/Volume : N/A
Completed : 04/05/22 Expires: 04/05/23
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	1.1937
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

Analyzed by 1843	Weight 0.1507g	Extraction date 04/01/22 10:04:39	Extracted By 1696
Analysis Method - SOP-060 (R5),		Reviewed On : 04/02/22 15:51:08	
Analytical Batch : DE003179PES		Batch Date : 03/25/22 15:47:20	
Instrument Used : Sciex 6500 Qtrap - Pesticides			
Running On :			
Dilution : 25			
Reagent : 032822.R08; 032822.R07; 031522.R09; 032122.R06; 021622.R11			
Consumables : 24169051; ASO-8408; 00291464; 304015242; 16564-106C6-106H			

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

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


Signature

04/05/22
Signed On



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Mary's Nutritionals

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 Aurora, CO, 80239, US
 Telephone: 7207631044
 Email: csullivan@dixieelixirs.com
 License # : 405R-00011

Sample : DE20331005-005

Harvest/Lot ID: 22090

Batch# : CO HEMP - 22090

Sampled : 03/31/22

Odered : 03/31/22

Sample Size Received : 1 units

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	26.5683
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	<5.12401
2-PROPANOL	1.58756	ppm	1000	PASS	12.4949
HEXANES	1.92798	ppm	60	PASS	ND



Residual Solvents

PASSED

Analyzed by 1843	Weight 0.2459g	Extraction date 04/01/22 03:04:00	Extracted By 666
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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 16:09:15
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.



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Harvest/Lot ID: 22090

Batch# : CO HEMP - 22090
Sampled : 03/31/22
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Sample Size Received : 1 units
Total Weight/Volume : N/A
Completed : 04/05/22 Expires: 04/05/23
Sample Method : SOP-024

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	Microbials	PASSED		Mycotoxins	PASSED
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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	1.02g	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 16:03:20
Instrument Used : Sciex 6500 Qtrap - Mycotoxins
Running On : | Batch Date : 03/25/22 15:47:28

Analyzed by	Weight	Extraction date	Extracted By
1843	0.1507g	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 < 20µg/Kg. Ochratoxins must be < 5µg/Kg.



Heavy Metals

PASSED

Metal	LOD	Unit	Result	Pass / Fail	Action Level
ARSENIC	0.002	ppm	0.0381	PASS	1.5
CADMIUM	0.001	ppm	0.0553	PASS	0.5
MERCURY	0.003	ppm	ND	PASS	1
LEAD	0.01	ppm	0.5268	PASS	1

Analyzed by	Weight	Extraction date	Extracted By
1843	0.2212g	04/01/22 12:04:37	666

Analysis Method -SOP-050 (R5)

Analytical Batch -DE003200HEA | Reviewed On - 04/02/22 15:19:08
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).