



Certificate of Analysis

Sample: DE20211009-002
Harvest/Lot ID: 22038
Batch#: CO HEMP - 22038
Seed to Sale# 1A4000B00010D25000001217
Batch Date: 02/07/22
Sample Size Received: 28 gram
Total Weight/Volume: N/A
Retail Product Size: 28 gram
Ordered : 02/11/22
sampled : 02/11/22
Completed: 02/18/22
Sampling Method: SOP-024
PASSED

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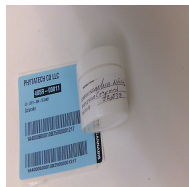
Feb 18, 2022 | Mary's Nutritionals

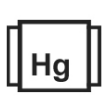
License # 405R-00011

3251 North Revere Street Suite 200

Aurora, CO, 80239, US

MARY'S
nutritionals

PRODUCT IMAGE

SAFETY RESULTS

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
MISC.
CANNABINOID RESULTS

Total THC
ND
TOTAL THC/Container :0 mg

Total CBD
0.362%
TOTAL CBD/Container :101.36 mg

Total Cannabinoids
0.394%
Total Cannabinoids/Container :110.32 mg

	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
%	0.022	ND	0.01	0.362	ND	ND	ND	ND	ND	ND	ND	ND	<0.002	<0.002	ND	ND	<0.002	ND	ND	ND	ND
ppm	0.22	ND	0.1	3.62	ND	ND	ND	ND	ND	ND	2.2E-5	0.002	0	0	0.002	0	0	1.0E-5	0.002	0.001	ND
LOD	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
1253

Weight
1.029g

Extraction date :
02/14/22 03:02:18

Extracted By :
1642

Analysis Method -SOP-020 (R15)
Reviewed On - 02/15/22 15:51:56
Batch Date : 02/14/22 11:57:55
Analytical Batch -DE003016POT
Instrument Used : Agilent 1100 "Falcon" Running On : 02/14/22 16:03:20
Reagent

102221.R04
020722.R11
020722.01
021422.R13
021422.R14
021422.R16

Dilution

40

Consums. ID

24169051
1154419
00291464
R1KB34782
298076054
12211-108CC-108

Consums. ID

234422
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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 3251 North Revere Street Suite 200
 Aurora, CO, 80239, US
 Telephone: 7207631044
 Email: csullivan@dixieelixirs.com
 License#: 405R-00011

Sample : DE20211009-002

Harvest/Lot ID: 22038

Batch# : CO HEMP - 22038

Sampled : 02/11/22

Ordered : 02/11/22

Sample Size Received : 28 gram

Total Weight/Volume : N/A

Completed : 02/18/22 Expires: 02/18/23

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
SPIROSADS	0.0134	ppb	60	PASS	ND
TEBUCONAZOLE	0.01	ppb	10	PASS	ND

Pesticides LOD Units Action Level Pass/Fail Result



Pesticides

PASSED

Analyzed by 1696 Weight 0.1656g Extraction date 02/14/22 01:02:01 Extracted By 1696

 Analysis Method - SOP-060 (R5),
 Analytical Batch - DE003003PES

Instrument Used : Sciex 6500 Qtrap - Pesticides

Running On :

Batch Date : 02/10/22 14:25:08

Reagent	Dilution	Consumables ID
020822.R02	25	24169051
020822.R01		ASO-8408
020822.R03		00291464
020722.R08		040CB-040D
011222.R01		298076054
		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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Total Weight/Volume : N/A

Completed : 02/18/22 Expires: 02/18/23

Sample Method : SOP-024

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<div>  Residual Solvents </div> <div>PASSED</div>					
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	ND
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	ND
HEXANES	1.92798	ppm	60	PASS	ND

<div>  Residual Solvents </div> <div>PASSED</div>			
Analyzed by 7	Weight 0.1477g	Extraction date 02/14/22 11:02:05	Extracted By 666
Analysis Method -SOP-032 (R18) Analytical Batch -DE003012SOL Instrument Used : GC 5890 Running On : Batch Date : 02/12/22 11:21:45		Reviewed On - 02/15/22 12:53:02	
Reagent 020522.R01	Dilution 1	Consumables ID 24160453 31726-2-1 16564-106C6-106H	

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: 22038

Batch# : CO HEMP - 22038

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Sample Size Received : 28 gram

Total Weight/Volume : N/A

Completed : 02/18/22 Expires: 02/18/23

Sample Method : SOP-024

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	Microbials	PASSED		Mycotoxins	PASSED
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Analyte	LOD	Result	Pass / Fail	Analyte	LOD	Units	Result	Pass / Fail	Action Level
TOTAL YEAST AND MOLD		not present in 1 gram.	PASS	AFLATOXINS		ppb	0	PASS	20
SHIGA TOXIN PRODUCING ESCHERICHIA COLI STEC		not present in 1 gram.	PASS	MYCOTOXIN IS-1 (D9-PIPERONYL BUTOXIDE)		ppb	214.953	PASS	
SALMONELLA SPECIES		not present in 1 gram.	PASS	MYCOTOXIN IS-2 (D6-DICHLORVOS)		ppb	372.296	PASS	
MICROBIALS		not present in 1 gram.	PASS	MYCOTOXIN IS-3 (D4-THIAMETHOXAM)		ppb	212.835	PASS	
TOTAL AEROBIC		0	PASS	AFLATOXIN B1	1.327	ppb	ND	PASS	20
TOTAL COLIFORM		0	PASS	AFLATOXIN B2	0.09	ppb	ND	PASS	20

Analysis Method -SOP-061 (R2); SOP-062 (R2); SOP-063 (R1)

Analytical Batch -DE003001MIC Batch Date : 02/10/22 10:29:46

Instrument Used : Microbial - Full Panel

Running On : 02/11/22 17:54:09

Analyzed by	Weight	Extraction date	Extracted By
5	4.05g	02/11/22 05:02:26	5

Reagent	Reagent	Reagent	Reagent	Dilution	Consums. ID	Consums. ID
020922.R05	091421.R01	122221.01	121421.15	1	CB1F14A 91005	00104
021122.R02	122121.R07	121521.31	022221.66		210622-688	01860
021122.R01	012822.R09	012522.01	011422.13		0	C_2142603
112921.R19	120921.02	012822.R17			20/08/03	2
121721.R06	110821.02	020722.R10			1	
101521.R04	122321.01	021022.R10			NT10-1212	

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.

Analysis Method -SOP-060 (R5)

Analytical Batch -DE003004MYC | Reviewed On - 02/18/22 16:33:57

Instrument Used : Sciex 6500 Qtrap - Mycotoxins

Running On : | Batch Date : 02/10/22 14:25:20

Analyzed by	Weight	Extraction date	Extracted By
1696	0.1656g	02/14/22 01:02:05	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
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Metal	LOD	Unit	Result	Pass / Fail	Action Level
ARSENIC	0.002	ppm	<LOQ	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
7	0.2316g	02/15/22 12:02:29	666

Analysis Method -SOP-050 (R5)

Analytical Batch -DE003010HEA | Reviewed On - 02/16/22 10:29:05

Instrument Used : Shimadzu 2030 ICP-MS

Running On : | Batch Date : 02/11/22 14:56:08

Reagent	Reagent	Dilution	Consums. ID
082721.13	071620.05	50	210316-361-B
021022.R02	020722.01		114CB--114E
021022.R01	020222.R06		12294-118CC-118
062121.04			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).