



Certificate of Analysis

Sample: DE20119016-002
Harvest/Lot ID: 22018
Batch#: CO HEMP - 22018
Seed to Sale# 1A4000B00010D25000001122
Batch Date: 01/18/22
Sample Size Received: 8 gram
Total Weight/Volume: N/A
Retail Product Size: 8.5 gram
Ordered: 01/19/22
sampled: 01/19/22
Completed: 01/26/22
Sampling Method: SOP-024

PASSED
Page 1 of 6

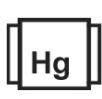
Jan 26, 2022 | Mary's Nutritionals
License # 405R-00011
3251 North Revere Street Suite 200
Aurora, CO, 80239, US



PRODUCT IMAGE SAFETY RESULTS MISC.



Pesticides
PASSED



Heavy Metals
PASSED



Microbials
PASSED



Mycotoxins
PASSED



Residuals Solvents
PASSED



Filtration
PASSED



Water Activity
NOT TESTED



Moisture
NOT TESTED



Homogeneity
NOT TESTED



Terpenes
TESTED

CANNABINOID RESULTS



Total THC
ND
TOTAL THC/Container :0 mg



Total CBD
1.29%
TOTAL CBD/Container :109.65 mg



Total Cannabinoids
1.38%
Total Cannabinoids/Container :117.3 mg

CBUV	CBDA	CBG	CBD	CBDA	THCV	CBGA	CBN	EXO-THC	CBDO	D9-THC	D8-THC	CBL	THCA	CBC	D10-THC	CBNA	THCA	CBCA	CBLA	THC-O-ACETATE	
0.037	ND	0.049	1.29	ND	ND	ND	0.004	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	
LOQ	0.00265237	0.001	0.00219044	2.8E-5	1.1E-5	0.00205806	0.00192419	1.0E-6	0.000237	0.0148	2.2E-5	0.00268886	0.000921807	0.000717378	0.00286194	0.0129	0.000910194	1.0E-5	0.00210199	0.00116619	0.003403
%	%	%	%	%	%	%	%	%	%	%	%	%	%	%	%	%	%	%	%	%	

Cannabinoid Profile Test

Analyzed by 8	Weight 1.0528g	Extraction date : 01/20/22 04:01:11	Extracted By : 1642
Analysis Method -SOP-020 (R15)	Reviewed On - 01/21/22 15:04:22	Batch Date : 01/20/22 13:01:00	
Analytical Batch -DE002918POT	Instrument Used : Agilent 1100 "Falcor"	Running On : 01/20/22 16:23:42	

Reagent	Dilution	Consums. ID	Consums. ID
102221.R04	40	11152021	234422
010622.R07		1119999	5079-525C6-525E
011422.R10		00291464	
012022.R04		R1KB34782	
011822.06		298076054	
		12265-116CC-116	

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 - **PASSED**

Analyte	LOD	Units	Result
TOTAL CBG	0.001	mg	3.92
TOTAL CBN	0.001	mg	ND

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


Signature

01/26/22
Signed On



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

Sample : DE20119016-002

Harvest/Lot ID: 22018

Batch# : CO HEMP - 22018

Sampled : 01/19/22

Ordered : 01/19/22

Sample Size Received : 8 gram

Total Weight/Volume : N/A

Completed : 01/26/22 Expires: 01/26/23

Sample Method : SOP-024

Page 2 of 6

Terpenes				TESTED
Terpenes	LOD(%)	mg/g	%	Result (%)
ALPHA-PINENE	0.002	ND	ND	[REDACTED]
CAMPHENE	0.002	ND	ND	
BETA-PINENE	0.002	ND	ND	
MYRCENE	0.002	ND	ND	
DELTA-3-CARENE	0.002	ND	ND	
ALPHA-TERPINENE	0.002	ND	ND	
P-CYMENE	0.002	ND	ND	
LIMONENE	0.002	ND	ND	
EUCALYPTOL	0.002	ND	ND	
CIS-OCIMENE	0.002	ND	ND	
GAMMA-TERPINENE	0.002	ND	ND	
TERPINOLENE	0.002	ND	ND	
LINALOOL	0.002	ND	ND	
(-)-ISOPULEGOL	0.002	ND	ND	
BORNEOL	0.002	ND	ND	
MENTHOL	0.002	ND	ND	
ALPHA-TERPINEOL	0.002	ND	ND	
PULEGONE	0.002	ND	ND	
GERANIOL	0.002	ND	ND	
2-ETHYL-FENCHOL	0.002	ND	ND	
BETA-CARYOPHYLLENE	0.002	ND	ND	
HUMULENE	0.002	ND	ND	
BISABOLENE	0.002	ND	ND	
NEROLIDOL	0.002	ND	ND	
(-)-CARYOPHYLLENE OXIDE	0.002	ND	ND	
(-)-GUAIOL	0.002	ND	ND	
(-)-ALPHA-BISABOLOL	0.002	ND	ND	
Total (%)		0		

Terpenes	LOD(%)	mg/g	%	Result (%)
 Terpenes TESTED				
Analyzed by 1542	Weight 1.0528g	Extraction date 01/21/22 10:01:05	Extracted By 1542	
Analysis Method - SOP-067 (R0)		Reviewed On - 01/24/22 10:31:56		
Analytical Batch - DE002921TER		Instrument Used : GC 6890		
Running On : 01/21/22 11:05:58		Batch Date : 01/21/22 10:15:11		
Reagent 012022.R04	Dilution 40	Consums. ID 11152021 1119999 00291464 298076054 12211-108CC-108		
Terpenoid profile screening is performed by GC-FID with liquid injection via SOP-067 (R0) which can screen for 28 terpenes.				

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Stephen Goldman
Lab Director

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01/26/22

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Sample : DE20119016-002

Harvest/Lot ID: 22018

Batch# : CO HEMP - 22018

Sampled : 01/19/22

Ordered : 01/19/22


Sample Size Received : 8 gram

Total Weight/Volume : N/A

Completed : 01/26/22 Expires: 01/26/23

Sample Method : SOP-024

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Pesticides						PASSED					
Pesticides	LOD	Units	Action Level	Pass/Fail	Result	Pesticides	LOD	Units	Action Level	Pass/Fail	Result
OTHER PESTICIDES	0.1	ppb	100	PASS	ND	 <p>Pesticides</p> <p>PASSED</p> <p>Analyzed by: 1696 Weight: 0.1601g Extraction date: 01/21/22 12:01:52 Extracted By: 1696 Analysis Method - SOP-060 (R5), Analytical Batch - DE002914PES Reviewed On - 01/20/22 10:51:26 Instrument Used : Sciex 6500 Qtrap - Pesticides Running On : Batch Date : 01/20/22 08:38:23</p> <p>Reagent Dilution Consumables ID 010422.R06 11152021 011822.R17 1119999 122721.R07 00291464 012022.R02 114CB-114E 011222.R01 16564-106C6-106H</p> <p>Pesticide screen is performed using LC-MS which can screen down to below single digit ppb concentrations for regulated Pesticides via SOP-060 (R5). *</p>					
AVERMECTINS	0.0271	ppb	70	PASS	ND						
AZOXYSTROBIN	0.0149	ppb	20	PASS	ND						
BIFENAZATE	0.0118	ppb	20	PASS	ND						
ETOXAZOLE	0.00645	ppb	10	PASS	ND						
IMAZALIL	0.0646	ppb	40	PASS	ND						
IMIDACLOPRID	0.00748	ppb	20	PASS	ND						
MALATHION	0.01108	ppb	50	PASS	ND						
MYCLOBUTANIL	0.0135	ppb	40	PASS	ND						
PERMETHRINS	0.0131	ppb	40	PASS	ND						
SPIROMESIFEN	0.0499	ppb	30	PASS	ND						
SPIROTETRAMAT	0.0301	ppb	20	PASS	ND						
SPIROSADS	0.0134	ppb	60	PASS	ND						
TEBUCONAZOLE	0.0103	ppb	10	PASS	ND						

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Stephen Goldman
Lab Director

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405-00008
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Signature

01/26/22

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PASSED

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Sample : DE20119016-002

Harvest/Lot ID: 22018

Batch# : CO HEMP - 22018

Sampled : 01/19/22

Ordered : 01/19/22

Sample Size Received : 8 gram

Total Weight/Volume : N/A

Completed : 01/26/22 Expires: 01/26/23

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	4.457
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	53.679
HEXANES	1.92798	ppm	60	PASS	ND



Residual Solvents

PASSED

Analyzed by 1253	Weight 0.1373g	Extraction date 01/25/22 09:01:00	Extracted By 1253
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Analysis Method -SOP-032 (R18)
Analytical Batch -DE002920SOL
Instrument Used : GC 5890
Running On :
Batch Date : 01/21/22 07:22:49
Reviewed On - 01/25/22 12:49:33

Reagent 010822.R02 011922.R07	Dilution 1	Consumables ID MKCN2192 24160453 31726-2-1 16564-106C6-106H
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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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Sample : DE20119016-002
Harvest/Lot ID: 22018

Batch# : CO HEMP - 22018
Sampled : 01/19/22
Ordered : 01/19/22

Sample Size Received : 8 gram
Total Weight/Volume : N/A
Completed : 01/26/22 Expires: 01/26/23
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		not present in 1 gram.	PASS
SHIGA TOXIN PRODUCING ESCHERICHIA COLI STEC		not present in 1 gram.	PASS
SALMONELLA SPECIES		not present in 1 gram.	PASS
MICROBIALS		not present in 1 gram.	PASS
TOTAL AEROBIC		0	PASS
TOTAL COLIFORM		0	PASS

Analysis Method -SOP-061 (R2); SOP-062 (R2); SOP-063 (R1)
Analytical Batch -DE002913MIC Batch Date : 01/19/22 17:34:48
Instrument Used : Microbial - Full Panel
Running On : 01/24/22 12:11:43

Analyzed by 1473 Weight 1.99g Extraction date 01/24/22 12:01:24 Extracted By 1473

Reagent	Reagent	Reagent	Dilution	Consums. ID	Consums. ID
011922.R06	011822.R10	011822.07	1	61596-112C6-112E	NT10-1212
012022.R01	082721.01	011722.R07		40898-021C4-021AI	20/08/30
011122.R12	110821.04	022221.63		0	01860
112921.R19	110821.02	121421.10		1	00104
121721.R06	122321.01			210622-688	0000004355
101521.R04	121521.31			12265-115CC-115	C_2142603

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
AFLATOXIN G2	0.303	ppb	ND	PASS	20
AFLATOXIN G1	0.180	ppb	ND	PASS	20
AFLATOXIN B2	0.0904	ppb	ND	PASS	20
AFLATOXIN B1	1.327	ppb	ND	PASS	20
OCHRATOXIN A+	0.0491	ppb	ND	PASS	20
AFLATOXINS		ppb	0	PASS	20

Analysis Method -SOP-060 (R5)
Analytical Batch -DE002915MYC | Reviewed On - 01/26/22 12:39:14
Instrument Used : Sciex 6500 Qtrap - Mycotoxins
Running On : | Batch Date : 01/20/22 08:38:37

Analyzed by 1696 Weight 0.1601g Extraction date 01/21/22 12:01:41 Extracted By 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	0.0020	ppm	ND	PASS	1.5
CADMIUM	0.0016	ppm	ND	PASS	0.5
MERCURY	0.0035	ppm	ND	PASS	1
LEAD	0.0101	ppm	ND	PASS	1

Analyzed by 7 Weight 0.224g Extraction date 01/21/22 01:01:19 Extracted By 666

Analysis Method -SOP-050 (R5)
Analytical Batch -DE002904HEA | Reviewed On - 01/23/22 13:17:41
Instrument Used : Shimadzu 2030 ICP-MS
Running On : 01/21/22 16:12:44 | Batch Date : 01/18/22 16:00:35

Reagent	Reagent	Dilution	Consums. ID
082721.13	010622.R05	50	210316-361-B
011722.R02	011822.06		114CB--114E
011722.R01			12294-118CC-118
102121.03			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).

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Total Weight/Volume : N/A
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Sample Method : SOP-024

Page 6 of 6

	Filth	PASSED
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Analyzed By	Weight	Extraction date	LOD(ppm)	Extracted By
2	NA	NA		NA

Analysis Method -SOP.T.40.013 Batch Date :
Analytical Batch -NA Reviewed On - 01/20/22 10:51:26
Instrument Used :
Running On :

This includes but is not limited to hair, insects, feces, packaging contaminants, and manufacturing waste and by-products. An SH-2B/T Stereo Microscope is use for inspection.

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