



Certificate of Analysis

Sample: DE30705002-001

Harvest/Lot ID: 23177

Batch#: CO HEMP/7500 - 23177

Seed to Sale# 1A4000B00010D25000003080

Batch Date: 06/26/23

Sample Size Received: 1 units

Total Amount: 10 units

Retail Product Size: 0.7127 units

Ordered: 07/05/23

Sampled: 07/05/23

Completed: 07/09/23

PASSED

Jul 09, 2023 | Mary's Nutritionals

License # 405R-00011

3251 North Revere Street Suite 200

Aurora, CO, 80239, US

MARY'S
nutritional

Pages 1 of 5

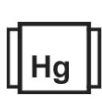
PRODUCT IMAGE



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 Testing
PASSED



Terpenes
NOT TESTED

MISC.



Cannabinoid

PASSED



Total THC

ND

Total THC/Container : 0 mg



Total CBD

2.7944%

Total CBD/Container : 19.9157 mg



Total Cannabinoids

3.1332%

Total Cannabinoids/Container : 22.3303 mg

	TOTAL 9IR (S)-HHC	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-ACE TATE
%	ND	0.1304	ND	0.2084	2.7944	ND	ND	ND	<0.0133	ND	ND	ND	ND	ND	ND	<0.0044	ND	ND	ND	ND	ND	ND
mg/unit	ND	0.9293	ND	1.4852	19.9156	ND	ND	ND	<0.0947	ND	ND	ND	ND	ND	ND	<0.0313	ND	ND	ND	ND	ND	ND
LOD	0.01	0.0017	0.0014	0.0009	0.0021	0.0031	0.0006	0.0016	0.0044	0.0008	0.0012	0.0025	0.0016	0.0034	0.0029	0.0014	0.0059	0.0047	0.0026	0.0011	0.0022	0.0021
%	%	%	%	%	%	%	%	%	%	%	%	%	%	%	%	%	%	%	%	%	%	%

Analyzed by:
1642, 8, 2863, 2080

Weight:
0.7063g

Extraction date:
07/07/23 14:47:59

Extracted by:
2721,1642,2863

Analysis Method : SOP.T.40.039.CO

Analytical Batch : DE005911POT

Instrument Used : Agilent 1100 "Liger"

Analyzed Date : 07/06/23 17:12:52

Reviewed On : 07/07/23 14:56:38

Batch Date : 07/06/23 06:32:16

Dilution : 40

Reagent : 070223.R26; 070223.R17; 043023.R08

Consumables : 2225821657; 2014919; 00336569; 0000164728; 303122060; 121621CH01; 923C4-923AK; 118C6-118H

Pipette : I1404270G; 22C52450

Full spectrum cannabinoid analysis utilizing High Performance Liquid Chromatography with DAD detection (HPLC-UV). Method SOP.T.90.010.CO for reporting. Lower limit of linearity for all cannabinoids is 1 mg/L.

Label Claim - PASSED

Analyte	LOD	Units	Pass/Fail TESTED	Result	Analyte	LOD	Units	Pass/Fail TESTED	Result
TOTAL CBG	0.001	mg	TESTED	1.4852	TOTAL CBN	0.001	mg	TESTED	0.0776

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Dane Oberhill

Lab Director

State License # 405R-00011

405-00008

ISO 17025 Accreditation # 4331.01



Signature

07/09/23



Certificate of Analysis

PASSED

Mary's Nutritionals

3251 North Revere Street Suite 200
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Telephone: (618) 967-7828
Email: mitch@marysmanagement.com
License # : 405R-00011

Sample : DE30705002-001

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Completed : 07/09/23 Expires: 07/09/24

Sample Method : SOP Client Method

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Pesticides

PASSED

Pesticide	LOD	Units	Action Level	Pass/Fail	Result	Pesticide	LOD	Units	Action Level	Pass/Fail	Result
AVERMECTIN	0.0139	ppb	100	PASS	ND	HEXYTHIAZOX	0.1977	ppb	10	PASS	ND
AZOXYSTROBIN	0.1122	ppb	20	PASS	ND	KRESOXIM-METHYL	0.5115	ppb	150	PASS	ND
BIFENAZATE	0.3285	ppb	20	PASS	ND	METHIOCARB	2.3105	ppb	10	PASS	ND
BIFENTHRIN	0.3469	ppb	1000	PASS	ND	METHOMYL	0.379	ppb	25	PASS	ND
BOSCALID	0.3057	ppb	20	PASS	ND	METHOPRENE	0.4892	ppb	2000	PASS	ND
CARBARYL	0.3165	ppb	50	PASS	ND	MEVINPHOS	0.0432	ppb	25	PASS	ND
CHLORPYRIFOS	0.2889	ppb	40	PASS	ND	MGK-264	0.1438	ppb	50	PASS	ND
CLOTHIANIDIN	0.537	ppb	50	PASS	ND	NALED	0.4305	ppb	100	PASS	ND
CYHALOTHRIN-LAMBDA	1.8598	ppb	250	PASS	ND	NOVALURON	0.2164	ppb	25	PASS	ND
DICHLORVOS	0.9888	ppb	100	PASS	ND	PHOSMET	0.2483	ppb	20	PASS	ND
DIMETHOATE	0.2585	ppb	20	PASS	ND	OXAMYL	0.376	ppb	1500	PASS	ND
DINOTEFURAN	0.4004	ppb	100	PASS	ND	PIPERONYL BUTOXIDE	0.3284	ppb	1250	PASS	ND
DIURON	0.7923	ppb	125	PASS	ND	PACLOBUTRAZOL	1.4227	ppb	10	PASS	ND
ETOXAZOLE	0.1839	ppb	20	PASS	ND	PIRIMICARB	0.3458	ppb	10	PASS	ND
IMAZALIL	0.4019	ppb	50	PASS	ND	PHENOTHRIN	0.306	ppb	50	PASS	ND
IMIDACLOPRID	0.265	ppb	20	PASS	ND	PRALLETHRIN	0.6623	ppb	50	PASS	ND
MALATHION	0.3036	ppb	20	PASS	ND	PROPOXUR	0.7835	ppb	10	PASS	ND
METALAXYL	0.2756	ppb	20	PASS	ND	PRYACLOSTROBIN	0.2379	ppb	10	PASS	ND
MYCLOBUTANIL	0.4417	ppb	20	PASS	ND	PYRETHRINS	0.181	ppb	50	PASS	ND
PERMETHRINS	0.2109	ppb	500	PASS	ND	PYRIDABEN	0.298	ppb	20	PASS	ND
PROPCONAZOLE	0.5659	ppb	100	PASS	ND	RESMETHRIN	0.2008	ppb	50	PASS	ND
PYRIPROXYFEN	0.8551	ppb	10	PASS	ND	SPINETORAM	0.1177	ppb	10	PASS	ND
SPIROSIDS	0.0545	ppb	100	PASS	ND	SPIRODICLOFEN	0.183	ppb	250	PASS	ND
SPIROMESIFEN	0.2912	ppb	3000	PASS	ND	SPIROXAMINE	0.3745	ppb	100	PASS	ND
SPIROTETRAMAT	0.4266	ppb	20	PASS	ND	TEBUFENOSIDE	0.2154	ppb	10	PASS	ND
TEBUCONAZOLE	0.3302	ppb	50	PASS	ND	TEFLUBENZURON	0.4437	ppb	25	PASS	ND
THIABENDAZOLE	0.8056	ppb	20	PASS	ND	TETRACHLORVINPHOS	0.133	ppb	10	PASS	ND
THIAMETHOXAM	0.3232	ppb	20	PASS	ND	TETRAMETHRIN	0.238	ppb	100	PASS	ND
ACEPHATE	0.2755	ppb	50	PASS	ND	THIACLOPRID	0.3999	ppb	10	PASS	ND
ACEQUINOCLYL	0.2707	ppb	30	PASS	ND	THIOPHANATE-METHYL	1.2413	ppb	50	PASS	ND
ACETAMIPRID	0.225	ppb	50	PASS	ND	TRIFLOXYSTROBIN	0.1938	ppb	10	PASS	ND
ALDICARB	0.4206	ppb	500	PASS	ND	CHLORPHENAPYR	0.412	ppb	1500	PASS	ND
ALLETHRIN	0.3601	ppb	100	PASS	ND	ENDOSULFAN-SULFATE	0.4196	ppb	2500	PASS	ND
ATRAZINE	1.064	ppb	25	PASS	ND	ENDOSULFAN-ALPHA	0.5956	ppb	2500	PASS	ND
AZADIRACTIN	1.1979	ppb	500	PASS	ND	ENDOSULFAN-BETA	0.5555	ppb	2500	PASS	ND
BENZOVINDIFLUPYR	0.3651	ppb	10	PASS	ND	ETRIDIAZOLE	1.2221	ppb	150	PASS	ND
BUPROFEZIN	0.3	ppb	20	PASS	ND	FENTHION	0.3118	ppb	10	PASS	ND
CARBOFURAN	0.3317	ppb	10	PASS	ND	IPRODIONE	0.2738	ppb	500	PASS	ND
CHLORANTRANILIPROLE	0.4629	ppb	20	PASS	ND	KINOPRENE	1.7294	ppb	1250	PASS	ND
CLOFENTHINE	0.3505	ppb	10	PASS	ND	PARATHION-METHYL	0.2709	ppb	50	PASS	ND
COUNAPHOS	0.2529	ppb	10	PASS	ND	QUINTOZENE	0.2693	ppb	20	PASS	ND
CYANTHANILIPROLE	0.5411	ppb	10	PASS	ND	OTHER PESTICIDES	0.1	ppb	100	PASS	ND
CYFLUTHRIN	0.6072	ppb	200	PASS	ND						
CYPERMETHRIN	0.3065	ppb	300	PASS	ND						
CYPRODINIL	0.4377	ppb	10	PASS	ND						
DAMINOZIDE	4.9907	ppb	100	PASS	ND						
DELTAMETHRIN	0.8431	ppb	500	PASS	ND						
DIAZINON	0.2055	ppb	20	PASS	ND						
DIMETHOMORPH	0.1014	ppb	50	PASS	ND						
DODEMORPH	0.2713	ppb	50	PASS	ND						
ETHOPROPHOS	0.4738	ppb	10	PASS	ND						
FIPRONIL	0.2707	ppb	10	PASS	ND						
ETOFENPROX	0.4114	ppb	50	PASS	ND						
FENHEXAMID	0.945	ppb	125	PASS	ND						
FENOXICARB	0.4316	ppb	20	PASS	ND						
FENPYROXIMATE	0.3098	ppb	20	PASS	ND						
FENSULFOTHION	0.3684	ppb	10	PASS	ND						
FENVALERATE	0.5416	ppb	100	PASS	ND						
FLONICAMID	0.3493	ppb	25	PASS	ND						
FLUDIOXONIL	0.2632	ppb	10	PASS	ND						
FLUOPYRAM	0.3817	ppb	10	PASS	ND						

Analyzed by: 2318, 2319, 7, 2080

Weight: 0.2049g

Extraction date: 07/05/23 17:22:07

Extracted by: 2318.7

Analysis Method : SOP-060 (R5)

Analytical Batch : DE005902PES

Instrument Used : Sciex 7500 Qtrap "Hades" - Pesticides

Reviewed On : 07/07/23 14:10:36

Batch Date : 07/05/23 08:26:29

Analyzed Date : 07/05/23 15:42:24

Dilution : 20

Reagent : 070523.R08; 070523.R09; 070523.R06; 061523.R03; 061223.R01; 070523.R12; 050523.R14; 070523.R01; 070523.R13; 070523.R11

Consumables : 2225821657; 2014919; 00339105-4; 0000164728; 220607059D; 118C6-118H

Pipette : G16447C; MUI3938; 22C52450; L22478M

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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Denver, CO, 80204, US
(303) 427-2379

Kaycha Labs

Patch
N/A
Matrix : Infused
Type: Trans-dermal Patch



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PASSED

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License #: 405R-00011

Sample : DE30705002-001

Harvest/Lot ID: 23177

Batch# : CO HEMP/7500 -
23177

Sampled : 07/05/23

Ordered : 07/05/23

Sample Size Received : 1 units

Total Amount : 10 units

Completed : 07/09/23 Expires: 07/09/24

Sample Method : SOP Client Method

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Residual Solvents

PASSED

Solvents	LOD	Units	Action Level	Pass/Fail	Result
PROPANE	4.2142	ppm	1000	PASS	ND
BUTANES	5.468	ppm	1000	PASS	ND
METHANOL	1.2786	ppm	600	PASS	12.4521
PENTANES	6.671	ppm	1000	PASS	ND
ETHANOL	2.701	ppm	1000000	PASS	ND
ACETONE	1.708	ppm	1000	PASS	32.7505
2-PROPANOL	1.5875	ppm	1000	PASS	ND
HEXANES	1.9279	ppm	60	PASS	ND
ETHYL ACETATE	2.7921	ppm	1000	PASS	ND
BENZENE	0.4749	ppm	2	PASS	ND
HEPTANE	3.2594	ppm	1000	PASS	ND
TOLUENE	2.1088	ppm	180	PASS	ND
XYLENES	7.115	ppm	430	PASS	ND

Analyzed by:
666, 2863, 7, 2080

Weight:
0.1462g

Extraction date:
07/05/23 16:24:58

Extracted by:
666

Analysis Method : SOP.T.40.049.CO
Analytical Batch : DE005905SOL
Instrument Used : GC 5890
Analyzed Date : 07/05/23 16:43:24

Reviewed On : 07/06/23 11:05:19
Batch Date : 07/05/23 13:11:53

Dilution : 1
Reagent : 061423.R09; 063023.R07
Consumables : 22382; R2017.100; G201.100; 61899-311C6-311E
Pipette : 218648; MU13938

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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Dane Oberhill

Lab Director

State License # 405R-00011
405-00008

ISO 17025 Accreditation # 4331.01

Signature
07/09/23



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 Email: mitch@marysmanagement.com
 License #: 405R-00011

Sample : DE30705002-001

Harvest/Lot ID: 23177

Batch #: CO HEMP/7500 - 23177

Sampled : 07/05/23

Ordered : 07/05/23



Sample Size Received : 1 units


Total Amount : 10 units

Completed : 07/09/23 Expires: 07/09/24

Sample Method : SOP Client Method

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 Microbial PASSED						 Mycotoxins PASSED					
Analyte	LOD	Units	Result	Pass / Fail	Action Level	Analyte	LOD	Units	Result	Pass / Fail	Action Level
TOTAL YEAST AND MOLD	100	cfu/g	ND	PASS	10000	AFLATOXINS	0.0539	ppb	ND	PASS	20
SHIGA TOXIN PRODUCING			Not Present	PASS		AFLATOXIN B1	0.153	ppb	ND	PASS	20
ESCHERICHIA COLI STEC			Not Present	PASS		AFLATOXIN B2	0.0823	ppb	ND	PASS	20
SALMONELLA SPECIES			Not Present	PASS		AFLATOXIN G1	0.0539	ppb	ND	PASS	20
TOTAL AEROBIC	10	cfu/g	ND	PASS	10000	AFLATOXIN G2	0.227	ppb	ND	PASS	20
TOTAL COLIFORM	10	cfu/g	ND	PASS	100	OCHRATOXIN A+	0.0117	ppb	ND	PASS	20
TOTAL E COLI	10	cfu/g	ND	PASS	100000						
Analyzed by: 2792, 2951, 7, 2080 Weight: 1.75g Extraction date: 07/05/23 12:05:23 Extracted by: 2792						Analyzed by: 2318, 7, 2319, 2080 Weight: 0.1454g Extraction date: 07/05/23 17:21:33 Extracted by: 2318					
Analysis Method : SOP.T.40.057.CO; SOP.T.40.209.CO Analytical Batch : DE005903MIC Instrument Used : Microbial - Full Panel Analyzed Date : 07/05/23 13:13:08						Analysis Method : SOP-060 (R5) Analytical Batch : DE005901MYC Instrument Used : Sciex 6500 Qtrap "Felicia" - Mycotoxins Analyzed Date : 07/05/23 08:42:53					
Dilution : N/A Reagent : 062123.R07; 070323.R01; 063023.R01; 040523.R04; 061123.R13; 011723.44; 053023.01; 101122.02; 041523.01; 030123.01; 020723.01; 061623.01; 061923.09; 041323.17; 070323.R05; 070323.R06; 061423.05 Consumables : 61882-301C6-301H; 411171-135C4-135AI; 121621CH01; 1; 211016-687-A; 2; 22148-CP69-22151; 3; 00111; CH 2242419; 4; 5; 6; 7 Pipette : M - O48453J; M - L47149J; M - 20F92851; M - MV21601; M - MU03680; M - M32141C; M - 20C40454; M - 22G22702; M - 6537603; M - MU06201; M - N65633K; M - K94440L; M - 20E73249; M - G19154L; M - Q29305K; M - J46789J; M - O52710K; M - N1563K; M - O34081K						Dilution : 25 Reagent : 062523.R02; 070223.R03; 070223.R05; 070223.R16; 070223.R11; 062523.R03; 070223.R10 Consumables : 2225821657; 2014919; 00339105-4; 243CE-243C; 0000164728; 118C6-118H Pipette : G16447C; MU13938; 22C52450; L22478M					
						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	Units	Result	Pass / Fail	Action Level
ARSENIC	0.0048	ppm	0.0559	PASS	1.5
CADMIUM	0.0016	ppm	0.0689	PASS	0.5
MERCURY	0.0008	ppm	ND	PASS	1
LEAD	0.0039	ppm	0.322	PASS	1
Analyzed by: 7, 2992, 2080 Weight: 0.2192g Extraction date: 07/05/23 13:08:53 Extracted by: 666					
Analysis Method : SOP.T.40.081.CO Analytical Batch : DE005904HEA Instrument Used : Shimadzu 2030 ICP-MS "Alice" Analyzed Date : 07/06/23 16:20:02					
Dilution : 50 Reagent : 082721.13; 070423.R02; 070423.R01; 100422.02; 070523.01; 070423.R03; 062623.02 Consumables : 22382; 246CE-246E; 220607059D; 234422 Pipette : MU13938; 8516758					
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.T.40.081.CO. Sample preparation for Heavy Metals Analysis via SOP.T.30.081.CO.					

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 Signature
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Kaycha Labs

..... Patch
N/A
Matrix : Infused
Type: Trans-dermal Patch



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Homogeneity

PASSED

Amount of tests conducted : 3

Analyte	LOD	Units	Pass/Fail	Result	Action Level
HOMOGENEITY		%	PASS	1.73	10
HOMOGENEITY (D9-THC)	1	%	PASS	ND	10
HOMOGENEITY (CBD)	1	%	PASS	1.7309	10
HOMOGENEITY (CBN)	1	%	PASS	<1	10

Analysis Method : SOP.T.40.039.CO
Analytical Batch : DE005911POT
Instrument Used : Agilent 1100 "Liger"
Analyzed Date : 07/06/23 17:12:52

Reviewed On : 07/07/23 14:56:38
Batch Date : 07/06/23 06:32:16

%RSD for 4 replicates must be < 10% to pass Homogeneity testing in the State of Colorado.

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