



# Certificate of Analysis

Sample: DE30719006-001  
Harvest/Lot ID: 23198  
Batch#: CO HEMP/7500 - 23198  
Seed to Sale# 1A4000B00010D25000003130  
Batch Date: 07/17/23  
Sample Size Received: 91 gram  
Total Amount: 91 gram  
Retail Product Size: 92.1 gram  
Ordered: 07/19/23  
Sampled: 07/19/23  
Completed: 07/24/23  
Revision Date: 07/25/23

**PASSED**

Jul 25, 2023 | Mary's Nutritionals  
License # 405R-00011  
3251 North Revere Street Suite 200  
Aurora, CO, 80239, US



Pages 1 of 6

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 Testing <b>PASSED</b>	 Terpenes <b>NOT TESTED</b>

**Cannabinoid** **PASSED**



**Total THC**  
**ND**  
Total THC/Container : 0 mg



**Total CBD**  
**0.2275%**  
Total CBD/Container : 208.7907 mg



**Total Cannabinoids**  
**0.2275%**  
Total Cannabinoids/Container : 208.7907 mg

	TOTAL 9H /S-HHC	CBDV	CBDVA	CBG	CBD	CBDa	THCV	CBGA	CBN	EXO-THC	CBDQ	D9-THC	D8-THC	CBL	THCVA	CBC	D10-THC	CBNA	THCA	CBCA	CBLA	THC-O-ACE TATE
%	ND	ND	ND	ND	0.2267	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
mg/g	ND	ND	ND	ND	2.267	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	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: 2721, 2791, 2863, 2319, 2950, 1642, 2080      Weight: 1.4787g      Extraction date: 07/20/23 15:08:32      Extracted by: 1642

Analysis Method : SOP.T.40.039.CO      Analytical Batch : DE006000POT      Reviewed On : 07/24/23 09:08:07  
Instrument Used : Agilent 1100 "Liger"      Analyzed Date : N/A      Batch Date : 07/20/23 11:02:35

Dilution : 40  
Reagent : 041123.R18; 071723.R23; 043023.R08; 071923.R03; 071223.21  
Consumables : 2225821657; HWK-TP3ML; 00339105-4; 0000185478; 303122060; 121621CH01; 923C4-923AK; 61572-107C6-107H  
Pipette : P200- G16447C; POT- 20E73244; POT- 20E74976; POT- 20K63477; P1000- 22C53342

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

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**Dane Oberhill**  
Lab Director  
State License # 405R-00011  
405-00008  
ISO 17025 Accreditation # 4331.01

  
Signature  
07/24/23

Revision: #1 - Added "Other Pesticides" result



# Certificate of Analysis

**PASSED**

Mary's Nutritionals

3251 North Revere Street Suite 200  
Aurora, CO, 80239, US  
Telephone: (618) 967-7828  
Email: mitch@marysmanagement.com  
License # : 405R-00011

Sample : DE30719006-001  
Harvest/Lot ID: 23198

Batch# : CO HEMP/7500 -  
23198  
Sampled : 07/19/23  
Ordered : 07/19/23

Sample Size Received : 91 gram  
Total Amount : 91 gram  
Completed : 07/24/23 Expires: 07/24/24  
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
AVERMECTINS	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	METHOPREME	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	11.7676
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	54.6004	PYRIDABEN	0.298	ppb	20	PASS	ND
PROPICONAZOLE	0.5658	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
SPIROSADs	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	TEBUFENOZIDE	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
ACEQUINOCLY	0.2707	ppb	30	PASS	ND	THIOPHONATE-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
CLOFENTEZINE	0.3505	ppb	10	PASS	ND	PARATHION-METHYL	0.2709	ppb	50	PASS	ND
COUMAPHOS	0.2529	ppb	10	PASS	ND	QUINTOZENE	0.2693	ppb	20	PASS	ND
CYANTRANILIPROLE	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						
FENYOXCARB	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, 2, 7, 2080  
 Weight: 0.2091g  
 Extraction date: 07/19/23 12:48:24  
 Extracted by: 2318  
 Analysis Method : SOP-060 (R5)  
 Analytical Batch : DE005991PES  
 Instrument Used : Sciex 7500 Qtrap "Hades" - Pesticides  
 Reviewed On : 07/25/23 09:48:41  
 Batch Date : 07/19/23 11:16:11  
 Analyzed Date : 07/19/23 17:29:43  
 Dilution : 20  
 Reagent : 071623.R21; 071623.R18; 071623.R23; 071623.R17; 071623.R20; 071623.R16; 071623.R19; 070523.R06; 093022.R15; 071623.R10; 071623.R11; 071623.R24; 071723.R02  
 Consumables : 2235821657; 2014919; 00339105-4; 0000164728; 220607059D; 118CG-118H  
 Pipette : PES: 20E74965  
 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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**Dane Oberhill**  
Lab Director

State License # 405R-00011  
405-00008  
ISO 17025 Accreditation # 4331.01

Signature  
07/24/23

Revision: #1 - Added "Other Pesticides" result



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Sample : DE30719006-001  
Harvest/Lot ID: 23198

Batch# : CO HEMP/7500 -  
23198  
Sampled : 07/19/23  
Ordered : 07/19/23

Sample Size Received : 91 gram  
Total Amount : 91 gram  
Completed : 07/24/23 Expires: 07/24/24  
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	ND
PENTANES	6.671	ppm	1000	PASS	ND
ETHANOL	2.701	ppm	1000000	PASS	<8.10318
ACETONE	1.708	ppm	1000	PASS	<5.12401
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: 2863, 666, 2813, 2080	Weight: 0.1475g	Extraction date: 07/20/23 14:11:54	Extracted by: 2863,666
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Analysis Method : SOP.T.40.049.CO	Reviewed On : 07/23/23 14:53:29
Analytical Batch : DE005995SOL	Batch Date : 07/19/23 16:12:07
Instrument Used : GC 5890	
Analyzed Date : 07/20/23 14:24:54	

Dilution : 1  
Reagent : 063023.R07; 071623.R14  
Consumables : 23133; R2017.100; G201.100; 61899-311C6-311E  
Pipette : P1000- 218648; P10- 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

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ISO 17025 Accreditation # 4331.01



Signature  
07/24/23

Revision: #1 - Added "Other Pesticides" result





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Sample : DE30719006-001  
Harvest/Lot ID: 23198

Batch #: CO HEMP/7500 - 23198  
Sample Size Received : 91 gram  
Total Amount : 91 gram  
Completed : 07/24/23 Expires: 07/24/24  
Sample Method : SOP Client Method

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	<b>Microbial</b>	<b>PASSED</b>		<b>Mycotoxins</b>	<b>PASSED</b>
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Analyte	LOD	Units	Result	Pass / Fail	Action Level
<b>TOTAL YEAST AND MOLD</b>	100	cfu/g	ND	PASS	10000
<b>SHIGA TOXIN PRODUCING ESCHERICHIA COLI STEC SALMONELLA SPECIES</b>			Not Present	PASS	
<b>TOTAL AEROBIC</b>	10	cfu/g	ND	PASS	10000
<b>TOTAL COLIFORM</b>	10	cfu/g	ND	PASS	100

Analyzed by: 2792, 5, 2080      Weight: 3.48g      Extraction date: 07/19/23 15:22:33      Extracted by: 2792

Analysis Method : SOP.T.40.057.CO; SOP.T.40.209.CO  
Analytical Batch : DE005987MIC      Reviewed On : 07/24/23 18:36:13  
Instrument Used : Microbial - Full Panel      Batch Date : 07/19/23 08:40:19  
Analyzed Date : 07/19/23 12:30:12

Dilution : N/A  
Reagent : 071123.R15; 063023.R01; 071723.R12; 061523.R02; 062923.R06; 070623.R05; 062623.R10; 062623.R13; 071523.R06; 042123.R06; 071823.R06; 071323.R04; 053023.01; 011723.44; 101122.02; 071823.01; 030123.01; 020723.01; 061123.R14; 061123.R08; 041323.20; 061423.07; 071323.R03; 072123.R01; 062323.R10  
Consumables : 61882-301C6-301H; 411171-135C4-135AI; 121621CH01; 1; 211016-687-A; 2; 22148-CP69-22151; 3; 00111; CH\_2242419; 4; 5; 6; 7; 8; 9; 40960-040C4-040AL; CJ209G2; 10; 11; 12; 13; 14; MSB1001; 15  
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 - P67199J; M - Q29305K; M - Q36416J; M - J46789J; M - J55715J; M - O52710K; M - N1563K; M - O34081K

Analyte	LOD	Units	Result	Pass / Fail	Action Level
<b>AFLATOXINS</b>	0.0539	ppb	ND	PASS	20
<b>AFLATOXIN B1</b>	0.153	ppb	ND	PASS	20
<b>AFLATOXIN B2</b>	0.0823	ppb	ND	PASS	20
<b>AFLATOXIN G1</b>	0.0539	ppb	ND	PASS	20
<b>AFLATOXIN G2</b>	0.227	ppb	ND	PASS	20
<b>OCHRATOXIN A+</b>	0.0117	ppb	ND	PASS	20

Analyzed by: 2318, 1642, 7, 2080      Weight: 0.2091g      Extraction date: 07/19/23 12:52:22      Extracted by: 2318

Analysis Method : SOP-060 (R5)  
Analytical Batch : DE005989MYC      Reviewed On : 07/20/23 16:24:27  
Instrument Used : Sciex 6500 Qtrap "Felicia" - Mycotoxins      Batch Date : 07/19/23 08:47:35  
Analyzed Date : 07/19/23 17:31:57

Dilution : 20  
Reagent : 071623.R21; 071623.R18; 071623.R23; 071623.R17; 071623.R20; 071623.R16; 093022.R22; 071623.R19; 070523.R06; 071323.R09; 071323.R10; 071623.R11; 071723.R02  
Consumables : 2225821657; 2014919; 00339105-4; 0000185478; 220607059D; 118C6-118H  
Pipette : PES- 20E74965

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.

	<b>Heavy Metals</b>	<b>PASSED</b>
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Metal	LOD	Units	Result	Pass / Fail	Action Level
<b>ARSENIC</b>	0.0048	ppm	ND	PASS	1.5
<b>CADMIUM</b>	0.0016	ppm	ND	PASS	0.5
<b>MERCURY</b>	0.0008	ppm	ND	PASS	1
<b>LEAD</b>	0.0039	ppm	ND	PASS	1

Analyzed by: 7, 2992, 2080      Weight: 0.2107g      Extraction date: 07/19/23 15:40:14      Extracted by: 666

Analysis Method : SOP.T.40.081.CO  
Analytical Batch : DE005984HEA      Reviewed On : 07/20/23 11:05:13  
Instrument Used : Shimadzu 2030 ICP-MS "Alice"      Batch Date : 07/18/23 14:56:13  
Analyzed Date : 07/19/23 16:04:22

Dilution : 50  
Reagent : 071723.R20; 082721.13; 070523.01; 042823.R04; 071623.R13; 071223.21; 071823.R16; 071823.R15  
Consumables : 23133; 246CE-246E; 220607059D; 234422  
Pipette : P10- MU13938; P200- 8516758; HEA-19H16763

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  
07/24/23

Revision: #1 - Added "Other Pesticides" result



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**Harvest/Lot ID:** 23198

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**Ordered :** 07/19/23

**Sample Size Received :** 91 gram  
**Total Amount :** 91 gram  
**Completed :** 07/24/23 **Expires:** 07/24/24  
**Sample Method :** SOP Client Method

Page 5 of 6

## Homogeneity **PASSED**

Amount of tests conducted : 6

Analyte	LOD	Units	Pass/Fail	Result	Action Level
<b>HOMOGENEITY</b>		%	<b>PASS</b>	3.03	10
<b>HOMOGENEITY (D9-THC)</b>	1	%	<b>PASS</b>	ND	10
<b>HOMOGENEITY (CBD)</b>	1	%	<b>PASS</b>	3.0343	10
<b>HOMOGENEITY (CBN)</b>	1	%	<b>PASS</b>	ND	10

**Analysis Method :** SOP.T.40.039.CO  
**Analytical Batch :** DE006000POT  
**Instrument Used :** Agilent 1100 "Liger"  
**Analyzed Date :** N/A

**Reviewed On :** 07/24/23 09:08:07  
**Batch Date :** 07/20/23 11:02:35

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

This report shall not be reproduced, unless in its entirety, without written approval from Kaycha Labs. This report is a Kaycha Labs certification. The results relate only to the material or product analyzed. Test results are confidential unless explicitly waived otherwise. Void after 1 year from test end date. Cannabinoid content of batch material may vary depending on sampling error. ND=Not Detected, NT=Not Tested, ppm=Parts Per Million, ppb=Parts Per Billion. Limit of Detection (LoD) and Limit Of Quantitation (LoQ) are terms used to describe the smallest concentration that can be reliably measured by an analytical procedure. RPD=Reproducibility of two measurements. Action Levels are State determined thresholds. The Measurement Uncertainty (UM) error is available from the lab upon request.

**Dane Oberhill**  
Lab Director

State License # 405R-00011  
405-00008  
ISO 17025 Accreditation # 4331.01



Signature  
07/24/23

**Revision: #1** - Added "Other Pesticides" result



# Certificate of Analysis

**PASSED**

**Mary's Nutritionals**

3251 North Revere Street Suite 200  
Aurora, CO, 80239, US  
**Telephone:** (618) 967-7828  
**Email:** mitch@marysmanagement.com  
**License # :** 405R-00011

**Sample :** DE30719006-001  
**Harvest/Lot ID:** 23198

**Batch# :** CO HEMP/7500 -  
23198  
**Sampled :** 07/19/23  
**Ordered :** 07/19/23

**Sample Size Received :** 91 gram  
**Total Amount :** 91 gram  
**Completed :** 07/24/23 **Expires:** 07/24/24  
**Sample Method :** SOP Client Method

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## COMMENTS

\* Cannabinoid DE30719006-001POT

**1** - Measurement Uncertainty for delta-9 THC (wt%, Infused) 95% interval : 0.07, Measurement Uncertainty for THCA (wt%, Infused) 95% interval : 0.05