

Certificate of Analysis

Oct 21, 2020 |

Sample:MO01016007-001

Harvest/Lot ID: 1

Seed to Sale #N/A

Batch Date :10/13/20

Batch#: 004

Sample Size Received: 10 gram

Retail Product Size: 1000

Ordered : 10/15/20

Sampled : 10/15/20

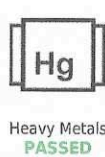
Completed: 10/21/20 Expires: 10/21/21

Sampling Method: SOP Client Method

PASSED

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PRODUCT IMAGE SAFETY RESULTS



MISC.

CANNABINOID RESULTS



Total THC
0.000%



Total CBD
99.494%



Total Cannabinoids
99.906%



Filtration

PASSED

Analyzed By	Weight	Extraction date	LOD(ppm)	Extracted By
1	1g	10/16/20		1

Analysis Method -SOP.T.40.013 Batch Date : 10/16/20 14:11:15
Analytical Batch -M0001283FIL Reviewed On - 10/16/20 14:13:14
Instrument Used : Microscope
Running On :

This includes but is not limited to hair, insects, feces, packaging contaminants, and manufacturing waste and by-products. An 8X-20X Stereo Microscope is used for inspection.

D9-THC	THCA	CBD	CBDa	D8-THC	THCV	CBN	CBDV	CBC	CBG	CBGA
ND	ND	99.494%	ND	ND	ND	ND	0.412%	ND	ND	ND
ND	ND	994.940 mg/g	ND	ND	ND	ND	4.120 mg/g	ND	ND	ND
LOD 0.0001	0.001	0.0001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001
%	%	%	%	%	%	%	%	%	%	%

Cannabinoid Profile Test

Analyzed by	Weight	Extraction date :	Extracted By :
19	0.0989g	10/19/20 03:10:24	5
Analysis Method -SOP.T.40.020, SOP.T.30.050		Reviewed On - 10/20/20 08:46:26	Batch Date : 10/19/20 15:45:07
Analytical Batch -M0001291POT Instrument Used : HPLC Potency Analyzer Running On :			

Reagent	Dilution	Consums. ID
	40	

Full spectrum cannabinoid analysis utilizing High Performance Liquid Chromatography with UV detection (HPLC-UV). (Method: SOP.T.30.050 for sample prep and Shimadzu High Sensitivity Method SOP.T.40.020 for analysis. LOQ for all cannabinoids is 1 mg/L). Measurement of Uncertainty: 2.7%

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David Greene
Lab Director

State License # 19-05-02P
ISO Accreditation #
17025:2017 #97164



Signature

10/21/2020

Signed On

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PASSED

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Harvest/LOT ID: 1

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Sample Size Received : 10 gram

Completed : 10/21/20 Expires: 10/21/21

Sample Method : SOP Client Method

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Residual Solvents **PASSED**



Residual Solvents **PASSED**

Solvent	LOD	Units	Action Level (PPM)	Pass/Fail	Result
TRICHLOROETHENE	3	ppm	80	PASS	ND
CHLOROFORM	0.24	ppm	60	PASS	ND
1,2-DICHLOROETHENE	0.24	ppm	1870	PASS	ND
1,1-DICHLOROETHENE	2	ppm	8	PASS	ND
PENTANES	90	ppm	2500	PASS	ND
BUTANES (N-BUTANE)	50	ppm	5000	PASS	ND
ACETONITRILE	7.2	ppm	410	PASS	ND
ACETONE	90	ppm	5000	PASS	ND
2-PROPANOL	60	ppm	5000	PASS	ND
HEXANES	6	ppm	290	PASS	ND
XYLENES	18	ppm	2170	PASS	ND
TOLUENE	18	ppm	1068	PASS	ND
PROPANE	80	ppm	5000	PASS	ND
METHANOL	30	ppm	3000	PASS	ND
HEPTANE	60	ppm	5000	PASS	380.000
XYLENES-P (1,4-DIMETHYLBENZENE)	18	ppm	2170	PASS	ND
ETHYLENE OXIDE	0.6	ppm	50	PASS	ND
XYLENES-M (1,3-DIMETHYLBENZENE)	18	ppm	2170	PASS	ND
ETHYL ETHER	60	ppm	5000	PASS	ND
XYLENES-O (1,2-DIMETHYLBENZENE)	18	ppm	2170	PASS	ND
ETHYL ACETATE	48	ppm	5000	PASS	ND
ETHANOL	120	ppm	5000	PASS	ND
DICHLOROMETHANE	15	ppm	600	PASS	ND

Analyzed by: 18
Weight: 0.025g
Extraction date: 10/19/20 11:10:49
Extracted By: 18

Analysis Method -SOP.T.40.032
Analytical Batch -M0001287SOL
Instrument Used : GCMS2010
Running On :
Batch Date : 10/19/20 11:06:07

Reagent	Dilution	Consums. ID
Residual solvents screening is performed using GC-MS which can detect below single digit ppm concentrations. Currently we analyze for 33 Residual solvents. (Method: SOP.T.30.042 Residual Solvents Analysis via GC-MS).		

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Sample Method : SOP Client Method

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	Microbials	PASSED		Mycotoxins	PASSED
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Analyte	LOD	Result	Analyte	LOD	Units	Result	Action Level (PPM)
ASPERGILLUS_TERREUS_1J2		not present in 1 gram	AFLATOXIN G2	0.001	ppm	ND	0.02
ASPERGILLUS_NIGER		not present in 1 gram	AFLATOXIN G1	0.001	ppm	ND	0.02
ASPERGILLUS_FUMIGATUS		not present in 1 gram	AFLATOXIN B2	0.001	ppm	ND	0.02
ASPERGILLUS_FLAVUS		not present in 1 gram	AFLATOXIN B1	0.001	ppm	ND	0.02
SALMONELLA_SPECIFIC_GENE		not present in 1 gram	OCHRATOXIN A+	0.001	ppm	ND	0.02
ESCHERICHIA_COLI_SHIGELLA_SPP		not present in 1 gram					

Analysis Method -SOP.T.40.043
Analytical Batch -NA Batch Date :
Instrument Used :
Running On :


Analyzed by	Weight	Extraction date	Extracted By
NA	NA	NA	NA

Microbiological testing for Fungal and Bacterial Identification via Polymerase Chain Reaction (PCR) method consisting of sample DNA amplified via tandem Polymerase Chain Reaction (PCR) as a crude lysate which avoids purification. (Method SOP.T.40.043) If a pathogenic: Escherichia Coli, Salmonella, Aspergillus fumigatus, Aspergillus Flavus, Aspergillus niger, or Aspergillus terreus is detected in 1g of a sample, the sample fails the microbiological-insecurity testing.

Analysis Method -SOP.T.30.060, SOP.T.40.060
Analytical Batch - | Reviewed On - 10/21/20 10:31:13
Instrument Used :
Running On :
Batch Date :

Analyzed by	Weight	Extraction date	Extracted By
NA	NA	NA	NA

Aflatoxins B1, B2, G1, G2, and Ochratoxins A testing using LC-MS. (Method: SOP.T.30.060 for Sample Preparation and SOP.T.40.060 Procedure for Mycotoxins Quantification Using LCMS. LOQ 1.0 ppb). Total Aflatoxins (Aflatoxin B1, B2, G1, G2) must be <20µg/Kg. Ochratoxins must be <20µg/Kg.

	Heavy Metals	PASSED
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Reagent

 110119.52
110119.44
112519.01
110119.36

Metal	LOD	Unit	Result	Action Level (PPM)
ARSENIC	0.02	ppm	ND	10
CADMIUM	0.02	ppm	ND	4.1
LEAD	0.02	ppm	ND	10
MERCURY	0.02	ppm	ND	2

Analyzed by	Weight	Extraction date	Extracted By
18	0.487g	10/19/20 11:10:23	18

Analysis Method -SOP.T.40.050, SOP.T.30.052
Analytical Batch -MO001288HEA | Reviewed On - 10/19/20 11:59:53
Instrument Used : ICP-MS 2030
Running On :
Batch Date : 10/19/20 11:09:24

Heavy Metals screening is performed using ICP-MS (Inductively Coupled Plasma - Mass Spectrometer) which can screen down to below single digit ppb concentrations for regulated heavy metals using Method SOP.T.30.052 Sample Preparation for Heavy Metals Analysis via ICP-MS and SOP.T.40.050 Heavy Metals Analysis via ICP-MS. *Action Limits based on Colorado Regulations.

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