



Certificate of Analysis

Sample: **DE30516008-002**
Batch#: 1A4000D000425B9000000022
Seed to Sale# 1A4000D000425B9000000696
Batch Date: 05/11/23
Sample Size Received: 5 gram
Ordered: 05/11/23
Sampled: 05/11/23
Completed: 05/22/23

TESTED

May 22, 2023 | The Hemp Mine
License # 403H-104234
PO Box 19445,
Denver, CO, 80219

Pages 1 of 6

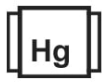
PRODUCT IMAGE



SAFETY RESULTS



Pesticides
PASSED



Heavy Metals
PASSED



Microbials
NOT TESTED



Mycotoxins
NOT TESTED



Residuals Solvents
PASSED



Filtration
NOT TESTED



Water Activity
NOT TESTED



Moisture
NOT TESTED



Homogeneity Testing
NOT TESTED



Terpenes
TESTED

MISC.



Cannabinoid

TESTED



Total THC
1.3692%



Total CBD
69.5136%



Total Cannabinoids
75.1763%

	TOTAL 9IR	(S)-HHC	CBDV	CBDVA	CBG	CBD	CBDa	THCV	CBGA	CBN	EXO-THC	CBDc	D9-THC	D8-THC	CBL	THCVA	CBC	D10-THC	CBNA	THCA	CBCA	CBLA	THC-O-ACE TATE
%	ND	ND	ND	2.0337	69.5136	ND	ND	ND	0.6309	ND	ND	ND	1.3692	ND	ND	ND	1.6289	ND	ND	ND	ND	ND	ND
mg/g	ND	ND	ND	20.337	695.136	ND	ND	ND	6.309	ND	ND	ND	13.692	ND	ND	ND	16.289	ND	ND	ND	ND	ND	ND
LoD	0.01	0.0015	0.001	0.0021	0.0014	0.0014	0.0012	0.0003	0.0013	0.0025	0.0148	0.0012	0.0023	0.0052	0.0014	0.001	0.0021	0.0018	0.0019	0.0001	0.001	0.0004	0.0004
	%	%	%	%	%	%	%	%	%	%	%	%	%	%	%	%	%	%	%	%	%	%	%

Analyzed by:
2813, 2950, 2319, 2080

Weight:
0.1685g

Extraction date:
05/17/23 10:33:23

Extracted by:
2813

Analysis Method : SOP-020 (R15)
Analytical Batch : DE00591POT
Instrument Used : Agilent 1100 "Falcon"
Analyzed Date : 05/17/23 16:34:18

Reviewed On : 05/19/23 09:51:12
Batch Date : 05/17/23 06:44:34

Dilution : 200
Reagent : 041023.13; 051723.R01; 043023.01
Consumables : 24168137; 1355147; 00336569; 0000164728; 303122060; 220607059D; 41141-130C4-130D; 118C6-118H
Pipette : N/A

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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Dane Oberhill
Lab Director

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



Signature
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Email: allison@thehempmine.com
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Page 2 of 6



Terpenes

TESTED

Terpenes	LOD (%)	mg/g	%	Result (%)	Terpenes	LOD (%)	mg/g	%	Result (%)
ALPHA-PINENE	0.002	ND	ND		Analyzed by: 1642, 2791, 2319, 2863, 2080 Weight: 0.1685g Extraction date: 05/17/23 10:28:51 Extracted by: 2813 Analysis Method : SOP-067 (R0) Analytical Batch : DE005595TER Instrument Used : GC 6890 Analyzed Date : 05/17/23 15:04:46 Reviewed On : 05/18/23 13:34:53 Batch Date : 05/17/23 10:27:25 Dilution : 40 Reagent : 041023.13; 092419.01; 051723.R01 Consumables : 24168137; 1355147; 00336569; 0000164728; 308128093; 220607059D; 923C4-923AK; 118C6-118H Pipette : N/A <small>Terpenoid profile screening is performed by GC-FID with liquid injection via SOP-067 (R0) which can screen for 28 terpenes.</small>				
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-CYMENTHENE	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	<0.4	<0.04						
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	<0.2	<0.02						
(-)-GUAIAOL	0.002	0.368	0.0368						
(-)-ALPHA-BISABOLOL	0.002	1.108	0.1108						
Total (%)			0.147						

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Page 3 of 6



Pesticides

PASSED

Pesticide	LOD	Units	Action Level	Pass/Fail	Result	Pesticide	LOD	Units	Action Level	Pass/Fail	Result
AVERMECTINS	0.0153	ppb	100	PASS	ND	Analyzed by: 953, 1253, 1642, 7, 2080 Weight: 0.1544g Extraction date: 05/17/23 12:17:43 Extracted by: 1642,2813 Analysis Method : SOP-060 (R5) Analytical Batch : DE005585PES Instrument Used : Sciex 6500 Qtrap "Felicia" - Pesticides Analyzed Date : 05/19/23 12:37:05 Reviewed On : 05/22/23 17:59:07 Batch Date : 05/16/23 10:57:32 Dilution : 25 Reagent : 051023.R12; 051823.R01; 050723.R01; 051823.R15; 051823.R07; 042623.R04; 042623.R02 Consumables : TSIN0C040FG; 1355147; 00336569-4; 243CE-243C; 0000164728; 118C6-118H Pipette : N/A Pesticide screen is performed using LC-MS which can screen down to below single digit ppb concentrations for regulated Pesticides via SOP-060 (R5).					
AZOXYSTROBIN	0.0094	ppb	20	PASS	ND						
BIFENAZATE	0.0917	ppb	20	PASS	ND						
ETOXAZOLE	0.0063	ppb	20	PASS	ND						
IMAZALIL	0.0857	ppb	50	PASS	ND						
IMIDACLOPRID	0.0068	ppb	20	PASS	ND						
MALATHION	0.0293	ppb	20	PASS	ND						
MYCLOBUTANIL	0.01	ppb	20	PASS	ND						
PERMETHRINS	0.0252	ppb	500	PASS	ND						
SPINOSADS	0.0015	ppb	100	PASS	ND						
SPIROMESIFEN	1.235	ppb	3000	PASS	ND						
SPIROTETRAMAT	0.0072	ppb	20	PASS	ND						
TEBUCONAZOLE	0.0073	ppb	50	PASS	ND						
OTHER PESTICIDES	0.1	ppb	100	PASS	ND						

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Page 4 of 6



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	<3.83604
PENTANES	6.671	ppm	1000	PASS	ND
ETHANOL	2.701	ppm	1000	PASS	ND
ACETONE	1.708	ppm	1000	PASS	<5.12401
2-PROPANOL	1.5875	ppm	1000	PASS	13.5037
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: 2813, 2863, 666, 2080 Weight: 0.1368g Extraction date: 05/16/23 14:08:07 Extracted by: 2813

Analysis Method : SOP-032 (R18) Analytical Batch : DE005587SOL Reviewed On : 05/17/23 17:57:07
Instrument Used : GC 5890 Batch Date : 05/16/23 12:51:33
Analyzed Date : 05/16/23 15:18:02

Dilution : 1
Reagent : 042023.R05; 050623.R04
Consumables : 428251; G201.100; 8000023869
Pipette : N/A

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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Page 5 of 6

Hg

Heavy Metals

PASSED

Metal	LOD	Units	Result	Pass / Fail	Action Level
ARSENIC	0.0048	ppm	ND	PASS	0.2
CADMIUM	0.0016	ppm	ND	PASS	0.2
MERCURY	0.0008	ppm	ND	PASS	0.1
LEAD	0.0039	ppm	ND	PASS	0.5

Analyzed by: 666, 2494, 2791, 2, 2080	Weight: 0.1945g	Extraction date: 05/16/23 14:09:23	Extracted by: 2992
--	--------------------	---------------------------------------	-----------------------

Analysis Method : SOP-050 (R5)	Reviewed On : 05/19/23 11:48:06
Analytical Batch : DE005583HEA	Batch Date : 05/16/23 08:04:48
Instrument Used : Shimadzu 2030 ICP-MS "Alice"	
Analyzed Date : 05/17/23 15:59:15	

Dilution : 50
 Reagent : 082721.13; 051623.R02; 051623.R01; 100422.02; 042823.04; 050923.R01; 043023.01
 Consumables : 23033; 11922032; 220607059D; 234422
 Pipette : N/A

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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Page 6 of 6

COMMENTS

* Cannabinoid DE30516008-002POT

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

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