

Universal Diagnostics

673 N. Bardstown Rd
Mount Washington, KY, 40047, US

Universal Diagnostic Labs

Distillate 273 #4

N/A

Matrix: Derivative



Certificate of Analysis

Dec 30, 2020 | Made By A Farmer

8275 Scio Church rd
Ann Arbor, MI, 48103, US



Sample: MO01223017-001

Harvest/Lot ID: 273 #4

Seed to Sale #N/A

Batch Date :N/A

Batch#: 19.78

Sample Size Received: 10 gram

Retail Product Size: 10

Ordered : 12/17/20

Sampled : 12/17/20

Completed: 12/30/20 Expires: 12/30/21

Sampling Method: SOP Client Method

TESTED

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PRODUCT IMAGE SAFETY RESULTS



Pesticides
PASSED



Heavy Metals
PASSED



Microbials
PASSED



Mycotoxins
PASSED



Residuals
Solvents
PASSED



Filtration
PASSED



Water Activity
NOT TESTED



Moisture
NOT TESTED



Terpenes
NOT TESTED

MISC.

CANNABINOID RESULTS



Total THC
2.017%



Total CBD
82.041%



Total Cannabinoids
92.494%



D9-THC	THCA	CBD	CBDA	D8-THC	THCV	CBN	CBDV	CBC	CBG	CBGA
2.017%	ND	82.041%	ND	ND	ND	0.214%	0.815%	6.903%	0.504%	ND
20.170 mg/g	ND	820.410 mg/g	ND	ND	ND	2.140 mg/g	8.150 mg/g	69.030 mg/g	5.040 mg/g	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	0.7027g	NA	NA
Analysis Method -SOP.T.40.020, SOP.T.30.050		Reviewed On - 12/29/20 10:02:40	Batch Date : 12/28/20 12:14:00
Analytical Batch -M0001588POT		Instrument Used : HPLC Potency Analyzer	

Reagent	Dilution	Consums. ID
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 #

Signature

Signature

12/30/2020

Signed On



Certificate of Analysis

TESTED

Made By A Farmer

8275 Scio Church rd
Ann Arbor, MI, 48103, US
Telephone: 7344763114
Email: ryan.valik@gmail.com

Sample : M001223017-001

Harvest/LOT ID: 273 #4

Batch# : 19.78

Sampled : 12/17/20

Ordered : 12/17/20

Sample Size Received : 10 gram

Completed : 12/30/20 Expires: 12/30/21

Sample Method : SOP Client Method

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Pesticides

PASSED

Pesticides	LOD	Units	Action Level	Result	Pesticides	LOD	Units	Action Level	Result
ABAMECTIN B1A	0.020	ppm	0.5	ND	PRALLETHRIN	0.050	ppm	0.2	ND
ACEPHATE	0.010	ppm	0.5	ND	PROPICONAZOLE	0.010	ppm	0.4	ND
ACEQUINOCYL	0.02	ppm	2	ND	PROPOXUR	0.010	ppm	0.2	ND
ACETAMIPRID	0.010	ppm	0.2	ND	PYRETHRIN I	0.010	ppm	1	ND
ALDICARB	0.020	ppm	0.4	ND	PYRIDABEN	0.005	ppm	0.2	ND
AZOXYSTROBIN	0.010	ppm	0.2	ND	SPINETORAM	0.005	ppm	0.5	ND
BIFENAZATE	0.010	ppm	0.2	ND	SPINOSAD (SPINOSYN A)	0.010	ppm	0.2	ND
BIFENTHRIN	0.010	ppm	0.2	ND	SPINOSAD (SPINOSYN D)	0.010	ppm	0.2	ND
BOSCALID	0.005	ppm	0.4	ND	SPIROMESIFEN	0.010	ppm	0.2	ND
CARBARYL	0.010	ppm	0.2	ND	SPIROTETRAMAT	0.020	ppm	0.2	ND
CARBOFURAN	0.010	ppm	0.2	ND	SPIROXAMINE	0.010	ppm	0.4	ND
CHLORANTRANILIPROLE	0.010	ppm	0.2	ND	TEBUCONAZOLE	0.010	ppm	0.4	ND
CHLORPYRIFOS	0.010	ppm	0.2	ND	THIACLOPRID	0.010	ppm	0.2	ND
CLOFENTEZINE	0.010	ppm	0.2	ND	THIAMETHOXAM	0.010	ppm	0.5	ND
COUMAPHOS	0.005	ppm	0.2	ND	TRIFLOXYSTROBIN	0.010	ppm	0.2	ND
CYPERMETHRIN	0.010	ppm	1	ND					
DAMINOZIDE	0.010	ppm	1	ND					
DIAZANON	0.010	ppm	0.2	ND					
DICHLORVOS	0.050	ppm	0.1	ND					
DIMETHOATE	0.010	ppm	0.2	ND					
DIMETHOMORPH	0.005	ppm	0.1	ND					
ETHOPROPHOS	0.010	ppm	0.2	ND					
ETOFENPROX	0.010	ppm	0.4	ND					
ETOXAZOLE	0.010	ppm	0.2	ND					
FENHEXAMID	0.005	ppm	0.1	ND					
FENOXYCARB	0.010	ppm	0.2	ND					
FENPYROXIMATE	0.010	ppm	0.4	ND					



Pesticides

PASSED

Analyzed by 564 Weight 0.520g Extraction date 12/28/20 02:12:37 Extracted By 564

Analysis Method - SOP.T.30.060, SOP.T.40.060 ,
Analytical Batch - M0001587PES
Instrument Used : LCMSMS 8060 P
Running On :
Batch Date : 12/28/20 10:34:25

Reviewed On- 12/29/20 10:44:57

Reagent Dilution Consums. ID
03-339-23D
00280227
921CC

Pesticide screen is performed using LC-MS which can screen down to below single digit ppb concentrations

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Ordered : 12/17/20

Sample Size Received : 10 gram
Completed : 12/30/20 Expires: 12/30/21
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	4000	PASS	ND
XYLENES, p-1,4	18	ppm	2170	PASS	ND

Analyzed by 18 Weight 0.022g Extraction date 12/28/20 10:12:47 Extracted By 18

Analysis Method -SOP.T.40.032
Analytical Batch -M0001586SOL Reviewed On - 12/28/20 10:28:35
Instrument Used : GCMS2010
Running On :
Batch Date : 12/28/20 10:12:07

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

Analyte

LOD

Result

ASPERGILLUS_TERREUS_1J2
ASPERGILLUS_NIGER
ASPERGILLUS_FUMIGATUS
ASPERGILLUS_FLAVUS
SALMONELLA_SPECIFIC_GENE
ESCHERICHIA_COLI_SHIGELLA_SPP

not present in 1 gram.
not present in 1 gram.
not present in 1 gram.
not present in 1 gram.
not present in 1 gram.
not present in 1 gram.

Analyte	LOD	Units	Result	Action Level (PPM)
AFLATOXIN G2	0.001	ppm	ND	0.02
AFLATOXIN G1	0.001	ppm	ND	0.02
AFLATOXIN B2	0.001	ppm	ND	0.02
AFLATOXIN B1	0.001	ppm	ND	0.02
OCHRATOXIN A+	0.001	ppm	ND	0.02

Analysis Method -SOP.T.40.043

Analytical Batch -NA Batch Date :

Instrument Used :

Running On :

Analysis Method -SOP.T.30.060, SOP.T.40.060

Analytical Batch - | Reviewed On - 12/29/20 10:45:03

Instrument Used :

Running On :

Batch Date :

Analyzed by	Weight	Extraction date	Extracted By
NA	NA	NA	NA

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-impurity testing.

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

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	0.491g	12/28/20 10:12:40	18

Analysis Method -SOP.T.40.050, SOP.T.30.052

Analytical Batch -M0001584HEA | Reviewed On - 12/28/20 10:49:53

Instrument Used : ICP-MS 2030

Running On :

Batch Date : 12/28/20 10:08:32

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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David Greene

Lab Director

State License # 19-05-02P
ISO Accreditation # .

Signature

12/30/2020

Signed On