

Certificate of Analysis

SAMPLE:MO00110001-001
Harvest/Lot ID: N/A
Seed to Sale #N/A
Batch Date :N/A
Batch#: NA
Sample Size Received: 1
Ordered : 01/09/20
Sampled : 01/09/20
Completed: 01/14/20 Expires: 01/14/21
Sampling Method: SOP Client Method

Jan 14, 2020

101 Liberty Drive Kevill
KENTUCKY, United States 42053

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PRODUCT IMAGE SAFETY RESULTS



Pesticides
PASSED



Heavy Metals
PASSED



Microbials
TESTED



Mycotoxins
PASSED



Residuals
Solvents
PASSED



Filtration
PASSED



Water Activity
NOT TESTED



Moisture
NOT TESTED



Terpenes
NOT TESTED

MISC.

CANNABINOID RESULTS



Total THC
0.000%



Total CBD
99.200%



Total Cannabinoids
99.671%



Filtration

PASSED

Analyte	Weight	Extraction date	LOD	Extracted By
NA	NA	NA	NA	NA

Analysis Method -SOP.T.40.013
Analytical Batch -NA
Instrument Used :

Batch Date :

This includes but is not limited to hair, insects, fleas, packaging contaminants, and manufacturing waste and by-products. An SA-3MT Stereo Microscope is used for inspection.

D9-THC	THCA	CBD	CBDA	D8-THC	THCV	CBN	CBDV	CBC	CBG	CBGA
ND	ND	99.200 %	ND	ND	ND	ND	0.471 %	ND	ND	ND
ND	ND	992.000 mg/g	ND	ND	ND	ND	4.710 mg/g	ND	ND	ND
0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01

Cannabinoid Profile Test

Analyzed by :
NA

Weight :
NA

Extraction date :
NA

Extracted By :
NA

Analysis Method -SOP.T.40.020, SOP.T.30.050
Analytical Batch - Instrument Used :

Batch Date :

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. LOD for all cannabinoids is 1 mg/L).

This report shall not be reproduced, unless in its entirety, without written approval from Kaycha Labs. This report is an 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. IC=In-control QC parameter, NC=Non-controlled QC parameter, ND=Not Detected, NA=Not Analyzed, 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 for human safety for consumption and/or inhalation.

David Greene
Lab Director
State License # 19-05-02P
ISO Accreditation # 17025:2017



Signature

01/14/2020

Signed On



Residual Solvents PASSED



Residual Solvents PASSED

SOLVENT	LOD	ACTION LEVEL (PPM)	PASS/FAIL	RESULT
TRICHLOROETHENE	3		PASS	ND
CHLOROFORM	0.24	90	PASS	ND
1,2-DICHLOROETHENE	0.24	1870	PASS	ND
1,1-DICHLOROETHENE	2	8	PASS	ND
PENTANES	90	2500	PASS	376.000
BUTANES (N-BUTANE)	50	5000	PASS	ND
ACETONITRILE	7.2	410	PASS	ND
BENZENE	0.12	2	PASS	ND
ACETONE	90	5000	PASS	ND
2-PROPANOL	60	5000	PASS	ND
HEXANES	6	290	PASS	ND
XYLENES	18	2170	PASS	ND
TOLUENE	18	1068	PASS	ND
PROPANE	80	5000	PASS	ND
METHANOL	30	3000	PASS	ND
XYLENES-P (1,4-DIMETHYLBENZENE)	18	2170	PASS	ND
HEPTANE	60	5000	PASS	ND
XYLENES-M (1,3-DIMETHYLBENZENE)	18	2170	PASS	ND
ETHYLENE OXIDE	0.5	50	PASS	ND
XYLENES-O (1,2-DIMETHYLBENZENE)	18	2170	PASS	ND
ETHYL ETHER	60	5000	PASS	ND
ETHYL ACETATE	48	5000	PASS	ND
DICHLOROMETHANE	15	600	PASS	ND
ETHANOL	120	5000	PASS	ND

Analyzed by NA Weight NA Extraction date NA Extracted By NA

Analysis Method -SOP.T.40.032
 Analytical Batch -
 Instrument Used :
 Batch Date :

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).

 **Mycotoxins** **PASSED**

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

Analysis Method -SOP.T.30.060, SOP.T.40.060
 Analytical Batch -
 Instrument Used :
 Batch Date :

Analyzed by	Weight	Extraction date	Extracted By
NA	NA	NA	NA

 **Microbials** **TESTED**

Analyte	LOD	Result
ASPERGILLUS_TERREUS_1J2	0	not present in 1 gram.
ASPERGILLUS_NIGER	0	not present in 1 gram.
ASPERGILLUS_FUMIGATUS	0	not present in 1 gram.
ASPERGILLUS_FLAVUS	0	not present in 1 gram.
SALMONELLA_SPECIFIC_GENE	0	not present in 1 gram.
ESCHERICHIA_COLI_SHIGELLA_SPP	0	not present in 1 gram.

Analysis Method -SOP.T.40.043
 Analytical Batch -MO000068MIC
 Instrument Used : PathogenDX
 Batch Date : 01/10/20

 **Heavy Metals** **PASSED**

Reagent	Dilution	Consums. ID
Metal	LOD	Result
ARSENIC	0.001	ND
CADMIUM	0.001	ND
LEAD	0.001	ND
MERCURY	0.001	ND

Analyzed by	Weight	Extraction date	Extracted By
9	0.507g	NA	NA

Analysis Method -SOP.T.40.050, SOP.T.30.052
 Analytical Batch -MO000080HEA
 Instrument Used : ICP-MS 2030
 Batch Date : 01/13/20

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.

 **Pesticides** **PASSED**

Pesticides	LOD	Action Level	Units	Result
DAKINAZIDE	0.010	1	ppm	NO
ACEPIRATE	0.010	0.5	ppm	NO
FLONICAMID	0.010	1	ppm	NO
OXAMYL	0.010	1	ppm	NO
METHOMYL	0.010	0.6	ppm	NO
THIAMETHOXAM	0.010	0.5	ppm	NO
IMIDACLOPRID	0.010	0.4	ppm	NO
DIMETHOATE	0.010	0.2	ppm	NO
ACETAMIPRID	0.010	0.2	ppm	NO
THIACTOPRID	0.010	0.2	ppm	NO
ALDICARB	0.010	0.4	ppm	NO
DICHLORVOS	0.050	0.1	ppm	NO
PROPOXUR	0.010	0.2	ppm	NO
CARBOFUENAN	0.010	0.2	ppm	NO
CARBARYL	0.010	0.2	ppm	NO
IMAZALIL	0.010	0.2	ppm	NO
METALAXYL	0.010	0.2	ppm	NO
CHLORANTRILIPROLE	0.010	0.2	ppm	NO
PHOSMET	0.010	0.2	ppm	NO
SPINOSAD	0.010	0.4	ppm	NO
METHIDATHION	0.010	0.2	ppm	NO
AZOXYSTROBIN	0.010	0.2	ppm	NO
FLACBUTRAZOL	0.010	0.4	ppm	NO
NALATHION	0.010	0.2	ppm	NO
MYCLOBUTANIL	0.010	0.2	ppm	NO
BIFENAZATE	0.010	0.2	ppm	NO
SPINOTETRAMAT	0.020	0.2	ppm	NO
ETHOPROPHOS	0.010	0.2	ppm	NO
FENOXICARB	0.010	0.2	ppm	NO
KRESOXIM-METHYL	0.010	0.4	ppm	NO
TEBUCONAZOLE	0.010	0.4	ppm	NO
DIAZINON	0.010	0.2	ppm	NO
PROPRONAZOLE	0.010	0.4	ppm	NO
CLOFENTHIZINE	0.010	0.2	ppm	NO
SPINOSAD (SPINOSYN A)	0.010	0.2	ppm	NO
PRALLETHRIN	0.050	0.2	ppm	NO
TRIFLOXYSTROBIN	0.010	0.2	ppm	NO
PIPERONYL BUTOXIDE	0.010	1	ppm	NO
CHLORPYRIFOS	0.010	0.2	ppm	NO

Pesticides	LOD	Action Level	Units	Result
HEXYTHIAZOX	0.010	1	ppm	NO
ETOXAZOLE	0.010	0.2	ppm	NO
SPINOMESIFEN	0.010	0.2	ppm	NO
FENPYROXIMATE	0.010	0.4	ppm	NO
PYRIDABEN	0.010	0.2	ppm	NO
PERMETHRIN	0.050	0.2	ppm	NO
ABAMECTIN B1A	0.010	0.5	ppm	NO
ETOFENPROX	0.010	0.4	ppm	NO
BIFENTHRIN	0.010	0.2	ppm	NO
FLUDOXONIL	0.010	0.4	ppm	NO
FIPRONIL	0.010	0.4	ppm	NO
CYPERMETHRIN	0.010	1	ppm	NO
NEVOPHOS	0.010	0.1	ppm	NO
DIMETHOMORPH	0.005	0.1	ppm	NO
FENHEXAMID	0.005	0.1	ppm	NO
COUMAPHOS	0.005	0.2	ppm	NO
SPINOSAD (SPINOSYN B)	0.010	0.2	ppm	NO

 **Pesticides** **PASSED**

Analyzed by	Weight	Extraction date	Extracted By
1	1.001g	NA	NA

Analysis Method -SOP.T.30.060, SOP.T.40.060
 Analytical Batch -MO000073PES
 Instrument Used : LCHMSMS 8000 P
 Batch Date : 01/10/20

Reagent	Dilution	Consums. ID

Pesticide screen is performed using LCMS which can screen down to below single digit ppb concentrations for regulated Pesticides. Currently we analyze for 57 Pesticides. (Method: SOP.T.30.060 Sample Preparation for Pesticides Analysis via LCMSMS and SOP.T.40.060 Procedure for Pesticide Quantification Using LCMS).

