



Certificate of Analysis

Jan 24, 2020 | Aerosource H

101 Liberty Drive Kevil
KENTUCKY, United States 42053



SAMPLE:MO00116004-001

Harvest/Lot ID: 0115

Seed to Sale #N/A

Batch Date :N/A

Batch#: Stand Fast 1

Sample Size Received: 1

Ordered : 01/15/20

Sampled : 01/15/20

Completed: 01/24/20 Expires: 01/24/21

Sampling Method: SOP Client Method

10-SF1

PASSED

Page 1 of 4

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
0.000%



Total CBD
99.705%



Total Cannabinoids
99.735%



Filtration

PASSED

Analyte	Weight	Extraction date	LOD	Extracted By
1	NA	NA		NA

Analysis Method -SOP.T.40.013

Analytical Batch -NA

Instrument Used :

Batch Date :

THC includes but is not limited to hexahydrocannabinol, tetrahydrocannabinol, and manufacturing waste and by-products. Anhydrous THCA is also included.

D9-THC	THCA	CBD	CBDA	D8-THC	THCV	CBN	CBDV	CBC	CBG	CBGA
ND	ND	99.705 %	ND	ND	ND	ND	0.030 %	ND	ND	ND
ND	ND	997.050 mg.g	ND	ND	ND	ND	0.300 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	Weight	Extraction date :	Extracted By :
19	1g	NA	NA

Analysis Method -SOP.T.40.020, SOP.T.30.050
 Analytical Batch -MO000108POT Instrument Used : HPLC Potency Analyzer Batch Date : 01/17/20

Reagent	Dilution	Consums. ID

This product contains a total Delta 9-tetrahydrocannabinol concentration that does not exceed 0.3% on a dry weight basis.

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. LOD=Limit of Detection. LLOD 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

01/24/2020

Signed On

2/20 ✓



Certificate of Analysis

PASSED
Aerosource H

 101 Liberty Drive Kevill
 KENTUCKY, United States 42053
 Telephone: 2704622742
 Email: tsimpson@aerosourceh.com

Sample : M000116004-001
Harvest/LOT ID: 0115
Batch# : Stand Fast 1 Sample Size received : 1
Sampled : 01/15/20 Completed : 01/24/20 Expires : 01/24/21
Ordered : 01/15/20 Sample Method : SOP Client Method
Page 2 of 4

Pesticides
PASSED

Pesticides	LOD	Action Level	Units	Result	Pesticides	LOD	Action Level	Units	Result
DAMINOZIDE	0.010	1	ppm	ND	HEXYTHIAZOX	0.010	1	ppm	ND
ACEPHATE	0.010	0.5	ppm	ND	ETOXAZOLE	0.010	0.2	ppm	ND
FLONICAMID	0.010	1	ppm	ND	SPIROMESIFEN	0.010	0.2	ppm	ND
OXAMYL	0.010	1	ppm	ND	PYRETHRIN I	0.010	1	ppm	ND
METHOMYL	0.010	0.5	ppm	ND	FENPYROXIMATE	0.010	0.4	ppm	ND
THIAMETHOXAM	0.010	0.5	ppm	ND	PYRIDABEN	0.005	0.2	ppm	ND
IMIDACLOPRID	0.010	0.4	ppm	0.021	PERMETHRINS	0.050	1	ppm	ND
DIMETHOATE	0.010	0.2	ppm	ND	ABAMECTIN B1A	0.020	0.5	ppm	ND
ACETAMIPRID	0.010	0.2	ppm	ND	ETOFENPROX	0.010	0.4	ppm	ND
THIACLOPRID	0.010	0.2	ppm	ND	BIFENTHRIN	0.010	0.2	ppm	ND
ALDICARB	0.020	0.4	ppm	ND	FLUDIOXONIL	0.010	0.4	ppm	ND
DICHLORVOS	0.050	0.1	ppm	ND	FIPRONIL	0.020	0.4	ppm	ND
PROPOXUR	0.010	0.2	ppm	ND	CYPERMETHRIN	0.010	1	ppm	ND
CARBOFURAN	0.010	0.2	ppm	ND	MEVINPHOS	0.010	0.1	ppm	ND
CARBARYL	0.010	0.2	ppm	ND	DIMETHOMORPH	0.005	0.1	ppm	ND
IMAZALIL	0.010	0.2	ppm	ND	FENHEXAMID	0.065	0.1	ppm	ND
METALAXYL	0.010	0.2	ppm	ND	CDUMAPHOS	0.005	0.2	ppm	ND
CHLORANTRANILPROLE	0.010	0.2	ppm	ND	SPINOSAD (SPINOSYN D)	0.010	0.2	ppm	ND
PHOSMET	0.010	0.2	ppm	ND	BOSCALID	0.005	0.4	ppm	ND
SPIROXAMINE	0.010	0.4	ppm	ND	ACEQUINOCYL	0.02	2	ppm	ND
METHIOCARB	0.010	0.2	ppm	ND	SPINETORAM	0.005	0.5	ppm	ND
AZOXYSTROBIN	0.010	0.2	ppm	ND					
PACLOBUTRAZOL	0.010	0.4	ppm	ND					
MALATHION	0.010	0.2	ppm	ND					
MYCLOBUTANIL	0.010	0.2	ppm	ND					
BIFENAZATE	0.010	0.2	ppm	ND					
SPIROTETRAMAT	0.020	0.2	ppm	ND					
ETHOPROPHOS	0.010	0.2	ppm	ND					
FENOXYCARB	0.010	0.2	ppm	ND					
KRESOXIM-METHYL	0.010	0.4	ppm	ND					
TEBUCONAZOLE	0.010	0.4	ppm	ND					
DIAZANON	0.010	0.2	ppm	ND					
PROPICONAZOLE	0.010	0.4	ppm	ND					
CLOFENTZINE	0.010	0.2	ppm	ND					
SPINOSAD (SPINOSYN A)	0.010	0.2	ppm	ND					
PRALLETHRIN	0.050	0.2	ppm	ND					
TRIFLOXYSTROBIN	0.010	0.2	ppm	ND					
PIPERONYL BUTOXIDE	0.010	3	ppm	ND					
CHLORPYRIFOS	0.010	0.2	ppm	ND					


Pesticides
PASSED

Analyzed by	Weight	Extraction date	Extracted by
1	1.037g	NA	NA

Analysis Method - SOP.T.30.060 SOP.T.40.060
 Analytical Batch - M0000101PES
 Instrument Used : LCHSRS 8060 P
 Batch Date : 01-16-20

Reagent	Dilution	Consums. ID

Pesticide analysis is performed using GC-MS which can screen down to below single digit ppb concentrations for most. See Pe Lab doc for info on analyze for 57 pesticides. (ref:ref: SOP.T.30.060 Sample Preparation for Pesticide Analysis via GC-MS) and SOP.T.40.060 Procedure for Pesticide Quantitation Using GC-MS.

This report shall not be reproduced, in whole or in part, 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 not valid unless explicitly stated otherwise. Valid after 1 year from test and date. Consumption content of each material may vary depending on many factors. Results are in units of ppm. For more information, contact us at (270) 462-2742. N/A Not Analyzed. ppm=parts per million. ppb=parts per billion. µg/L=µg of Derivative in 1L of LOD and Limit of Quantitation (LOQ) are listed in units of µg/L. The smallest concentration that can be reliably measured by an analytical procedure. RPD - Reproducibility of two measurements. Action Levels are not determined through this test for human safety or consumption and individuals.

David Greene
 Lab Director

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

Signature

01/24/2020

Signed On



673 N. Bardstown Rd

Kaycha Labs

Stand Fast

N/A

Matrix : Derivative



Certificate of Analysis

PASSED

Aerosource H

101 Liberty Drive Kevil
KENTUCKY, United States 42053

Telephone: 2704622742

Email: tsimpson@aerosourceh.com

Sample : M000116004-001

Harvest/LOT ID: 0115

Batch# : Stand Fast 1 Sample Size received : 1

Sampled : 01/15/20

Ordered : 01/15/20

Completed : 01/24/20 Expires : 01/24/21

Sample Method : SOP Client Method

Page 3 of 4



Residual Solvents

PASSED



Residual Solvents

PASSED

SOLVENT	LOD	ACTION LEVEL (PPM)	PASS/FAIL	RESULT
TRICHLOROETHENE	3		PASS	ND
CHLOROFORM	0.24	60	PASS	ND
1,2-DICHLOROETHENE	0.24	1870	PASS	ND
1,1-DICHLOROETHENE	2	8	PASS	ND
PENTANES	90	2500	PASS	239.050
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	0.6	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 18 Weight 0.030g Extraction date NA Extracted By NA

Analysis Method -SOP.T.40.032
Analytical Batch -M0000111SOL
Instrument Used : GCMS2010
Batch Date : 01/17/20

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).

This report shall not be reproduced, inless 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 first 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

01/24/2020

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

Signature

Signed On



Certificate of Analysis

PASSED

Aerosource H

101 Liberty Drive Kevil
KENTUCKY, United States 42053
Telephone: 2704622742
Email: tsimpson@aerosourceh.com

Sample : MO00116004-001
Harvest/LOT ID: 0115

Batch# : Stand Fast 1 Sample Size received : 1
Sampled : 01/15/20 Completed : 01/24/20 Expires : 01/24/21
Ordered : 01/15/20 Sample Method : SOP Client Method

Page 4 of 4



Mycotoxins

PASSED



Heavy Metals

PASSED

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

Analysis Method -SOP.T.30.060, SOP.T.40.060
Analytical Batch -MO000103
Instrument Used : LCMSMS 8060 M
Batch Date : 01/16/20

Analyzed by	Weight	Extraction date	Extracted By
1	1.002g	NA	NA

Reagent	Dilution	Consums.	ID
Metal	LOD	Result	Action Level (PPM)
ARSENIC	0.001	ND	1.5
CADMIUM	0.001	ND	0.5
LEAD	0.001	ND	0.5
MERCURY	0.001	ND	3

Analyzed by	Weight	Extraction date	Extracted By
18	0.498g	NA	NA

Analysis Method -SOP.T.40.050, SOP.T.30.052
Analytical Batch -MO000104HEA
Instrument Used : ICP-MS 2030
Batch Date : 01/16/20

Heavy Metals screening is performed using ICP-MS (Inductively Coupled Plasma - Mass Spectrometry) which can screen down to below single digit ppb concentrations for routine 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.



Microbials

PASSED

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 -NA
Instrument Used :
Batch Date :

Analyzed by	Weight	Extraction date	Extracted By
NA	NA	NA	NA

David Greene
Lab Director

State License # 19-05-UDP
ISO Accreditation #
17025-2017



Signature

01/24/2020

Signed On