



Certificate of Analysis

Feb 15, 2022 | allitom

917 W 18th St
Chicago, IL, 60607, US



Sample:KN20209004-003
Harvest/Lot ID: 12-1020211004

Batch#: 12-1020211004

Seed to Sale# N/A

Batch Date: 02/01/22

Sample Size Received: 30 ml

Total Weight/Volume: N/A

Retail Product Size: 30 ml

Ordered : 02/02/22

sampled : 02/02/22

Completed: 02/15/22 Expires: 02/15/23

Sampling Method: SOP Client Method

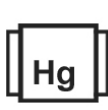
PASSED

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PRODUCT IMAGE SAFETY RESULTS



Pesticides
PASSED



Heavy Metals
PASSED



Microbials
PASSED



Mycotoxins
PASSED



Residuals
Solvents
PASSED



Filth
PASSED



Water Activity
NOT TESTED



Moisture
NOT TESTED



Terpenes
NOT TESTED

CANNABINOID RESULTS



Total THC
0.277%

TOTAL THC/Container :76.452 mg



Total CBD
9.135%

TOTAL CBD/Container :2521.26 mg



Total Cannabinoids
10.062%

Total Cannabinoids/Container :2777.112 mg

	CBDV	CBDa	CBGA	CBG	CBD	THCV	CBN	EXO-THC	D9-THC	D8-THC	D10-THC	CBC	THCA	D8-THCO	D9-THCO
%	0.087	0.016	ND	0.168	9.121	0.02	0.016	ND	0.269	<0.01	ND	0.355	0.01	ND	ND
mg/ml	0.8	0.147	ND	1.545	83.913	0.184	0.147	ND	2.474	<0.092	ND	3.266	0.092	ND	ND
LOD	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.002	0.001	0.001	0.001	0.001	0.001	0.002	0.002
%	%	%	%	%	%	%	%	%	%	%	%	%	%	%	%

Filth PASSED

Analyzed By 1692 Weight 0.5419g Extraction date 02/09/22 Extracted By 1692
Analyte LOD Pass/Fail Result
Filth and Foreign Material 0.3 Pass ND
Analysis Method -SOP.T.40.013 Batch Date : 02/09/22 08:23:28
Analytical Batch -KN001934FIL Reviewed On - 02/09/22 08:45:17
Instrument Used : E-AMS-138 Microscope
Running On :

This includes but is not limited to hair, insects, feces, packaging contaminants, and manufacturing waste and by-products. A SW-2T13 Stereo Microscope is used for inspection.

Cannabinoid Profile Test

Analyzed by 113 Weight 0.2081g Extraction date : 02/09/22 09:02:47 Extracted By : 113
Analysis Method -Expanded Measurement of Uncertainty: Flower Matrix d9-THC:12.7%, THCa: 9.5%, TOTAL THC 11.1%. These uncertainties represent an expanded uncertainty expressed at approximately the 95% confidence level using a coverage factor k=2 for a normal distribution. 12:21:31
Analytical Batch -KN001930POT Instrument Used : HPLC E-SHI-008 Running On : Batch Date : 02/08/22 08:38:12

Reagent Dilution Consumables ID
081321.R04 40 947.271, B9291.271
020222.R03 0030220
012722.R01

Full spectrum cannabinoid analysis utilizing High Performance Liquid Chromatography with UV/PDA detection (HPLC-UV/PDA). (Method: SOP.T.30.031.TN for sample prep and Shimadzu High Sensitivity Method SOP.T.40.031 for analysis.). *Based on FL action limits.

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. The result >99% are variable based on uncertainty of measurement (UM) for the analyte. The UM error is available from the lab upon request. The "Decision Rule" for the pass/fail does not include the UM. The limits are based on F.S. Rule 64-4.310.

Sue Ferguson

Lab Director

State License # n/a
ISO Accreditation # 17025:2017

Sue Ferguson

Signature

02/15/22

Signed On



Certificate of Analysis

PASSED

allitom


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 Email: tboudrie@allitom.com


 Sample : KN20209004-003
 Harvest/Lot ID: 12-1020211004

 Batch# : 12-1020211004
 Sampled : 02/02/22
 Ordered : 02/02/22

 Sample Size Received : 30 ml
 Total Weight/Volume : N/A
 Completed : 02/15/22 Expires: 02/15/23
 Sample Method : SOP Client Method

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<div>  Pesticides </div>						<div> PASSED </div>					
Pesticides	LOD	Units	Action Level	Pass/Fail	Result	Pesticides	LOD	Units	Action Level	Pass/Fail	Result
ABAMECTIN B1A	0.01	ppm	0.3	PASS	ND	PIPERONYL BUTOXIDE	0.01	ppm	3	PASS	ND
ACEPHATE	0.01	ppm	3	PASS	ND	PRALLETHRIN	0.01	ppm	0.4	PASS	ND
ACEQUINOCYL	0.01	ppm	2	PASS	ND	PROPICONAZOLE	0.01	ppm	1	PASS	ND
ACETAMIPRID	0.01	ppm	3	PASS	ND	PROPOXUR	0.01	ppm	0.1	PASS	ND
ALDICARB	0.01	ppm	0.1	PASS	ND	PYRETHRINS	0.01	ppm	1	PASS	ND
AZOXYSTROBIN	0.01	ppm	3	PASS	ND	PYRIDABEN	0.01	ppm	3	PASS	ND
BIFENAZATE	0.01	ppm	3	PASS	ND	SPINETORAM	0.01	ppm	3	PASS	ND
BIFENTHRIN	0.01	ppm	0.5	PASS	ND	SPIROMESIFEN	0.01	ppm	3	PASS	ND
BOSCALID	0.01	ppm	3	PASS	ND	SPIROTETRAMAT	0.01	ppm	3	PASS	ND
CARBARYL	0.01	ppm	0.5	PASS	ND	SPIROXAMINE	0.01	ppm	0.1	PASS	ND
CARBOFURAN	0.01	ppm	0.1	PASS	ND	TEBUCONAZOLE	0.01	ppm	1	PASS	ND
CHLORANTRANILIPROLE	0.01	ppm	3	PASS	ND	THIACLOPRID	0.01	ppm	0.1	PASS	ND
CHLORMEQUAT CHLORIDE	0.01	ppm	3	PASS	ND	THIAMETHOXAM	0.01	ppm	1	PASS	ND
CHLORPYRIFOS	0.01	ppm	0.1	PASS	ND	TOTAL SPINOSAD	0.01	ppm	3	PASS	ND
CLOFENTHEZINE	0.01	ppm	0.5	PASS	ND	TRIFLOXYSTROBIN	0.01	ppm	3	PASS	ND
COUMAPHOS	0.01	ppm	0.1	PASS	ND						
CYPERMETHRIN	0.01	ppm	1	PASS	ND						
DAMINOZIDE	0.01	ppm	0.1	PASS	ND						
DIAZANON	0.01	ppm	0.2	PASS	ND						
DICHLORVOS	0.01	ppm	0.1	PASS	ND						
DIMETHOATE	0.01	ppm	0.1	PASS	ND						
DIMETHOMORPH	0.01	ppm	3	PASS	ND						
ETHOPROPHOS	0.01	ppm	0.1	PASS	ND						
ETOFENPROX	0.01	ppm	0.1	PASS	ND						
ETOXAZOLE	0.01	ppm	1.5	PASS	ND						
FENHEXAMID	0.01	ppm	3	PASS	ND						
FENOXYCARB	0.01	ppm	0.1	PASS	ND						
FENPYROXIMATE	0.01	ppm	2	PASS	ND						
FIPRONIL	0.01	ppm	0.1	PASS	ND						
FLONICAMID	0.01	ppm	2	PASS	ND						
FLUDIOXONIL	0.01	ppm	3	PASS	ND						
HEXYTHIAZOX	0.01	ppm	2	PASS	ND						
IMAZALIL	0.01	ppm	0.1	PASS	ND						
IMIDACLOPRID	0.01	ppm	3	PASS	ND						
KRESOXIM-METHYL	0.01	ppm	1	PASS	ND						
MALATHION	0.01	ppm	2	PASS	ND						
METALAXYL	0.01	ppm	3	PASS	ND						
METHIOCARB	0.01	ppm	0.1	PASS	ND						
METHOMYL	0.01	ppm	0.1	PASS	ND						
MEVINPHOS	0.01	ppm	0.1	PASS	ND						
MYCLOBUTANIL	0.01	ppm	3	PASS	ND						
NALEB	0.01	ppm	0.5	PASS	ND						
OXAMYL	0.01	ppm	0.5	PASS	ND						
PACLOBUTRAZOL	0.01	ppm	0.1	PASS	ND						
PERMETHRINS	0.01	ppm	1	PASS	ND						
PHOSMET	0.01	ppm	0.2	PASS	ND						



Pesticides

PASSED

Analyzed by 143	Weight 0.5113g	Extraction date 02/09/22 11:02:42	Extracted By 143
Analysis Method - SOP.T.30.060, SOP.T.40.060, Analytical Batch - KN001937PES			Reviewed On - 02/09/22 08:45:17
Instrument Used : E-SHI-125 Pesticides Running On : 02/09/22 11:39:56			Batch Date : 02/09/22 09:53:02
Reagent 020322.R13 051021.01 011822.R09 020822.R01 020122.R52 010622.R02	Dilution 10	Consumables ID 200618634 947.271	
Pesticide analysis is performed using LC-MSMS which can quantify down to below single digit ppb concentrations for regulated Pesticides. Currently we analyze for 61 Pesticides. (Methods: SOP.T.30.065 Sample Preparation for Pesticides Analysis via LCMSMS and SOP.T40.065 Procedure for Pesticide Quantification Using LCMSMS). *Based on FL action limits. *			



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 Harvest/Lot ID: 12-1020211004
 Batch# : 12-1020211004
 Sampled : 02/02/22
 Ordered : 02/02/22

 Sample Size Received : 30 ml
 Total Weight/Volume : N/A
 Completed : 02/15/22 Expires: 02/15/23
 Sample Method : SOP Client Method

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Residual Solvents

PASSED

Solvent	LOD	Units	Action Level	Pass/Fail	Result
PROPANE	500	ppm	2100	PASS	ND
BUTANES (N-BUTANE)	500	ppm	2000	PASS	ND
METHANOL	25	ppm	3000	PASS	ND
ETHYLENE OXIDE	0.5	ppm	5	PASS	ND
PENTANES (N-PENTANE)	75	ppm	5000	PASS	ND
ETHANOL	500	ppm	5000	PASS	ND
ETHYL ETHER	50	ppm	5000	PASS	ND
1,1-DICHLOROETHENE	0.8	ppm	8	PASS	ND
ACETONE	75	ppm	5000	PASS	ND
2-PROPANOL	50	ppm	500	PASS	ND
ACETONITRILE	6	ppm	410	PASS	ND
DICHLOROMETHANE	12.5	ppm	600	PASS	ND
N-HEXANE	25	ppm	290	PASS	ND
ETHYL ACETATE	40	ppm	5000	PASS	ND
CHLOROFORM	0.2	ppm	60	PASS	ND
BENZENE	0.1	ppm	2	PASS	ND
1,2-DICHLOROETHANE	0.2	ppm	5	PASS	ND
HEPTANE	500	ppm	5000	PASS	ND
TRICHLOROETHYLENE	2.5	ppm	80	PASS	ND
TOLUENE	15	ppm	890	PASS	ND
TOTAL XYLENES - M, P & O - DIMETHYLBENZENE	15	ppm	2170	PASS	ND



Residual Solvents

PASSED

Analyzed by 138	Weight 0.02088g	Extraction date 02/10/22 09:02:15	Extracted By 138
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Analysis Method -SOP.T.40.032

Analytical Batch -KN001936SOL

Instrument Used : E-SHI-106 Residual Solvents

Running On : 02/09/22 16:45:16

Batch Date : 02/09/22 09:01:08

Reviewed On - 02/15/22 18:50:18

Reagent	Dilution	Consumables ID
	1	R2017.062 G201-062

Residual solvents screening is performed using GC-MS which can detect below single digit ppm concentrations. Currently we analyze for 22 residual solvents. (Method: SOP.T.40.032 Residual Solvents Analysis via GC-MS). Analytes ISO pending. *Based on FL action limits.



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PASSED

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 Harvest/Lot ID: 12-1020211004
 Batch# : 12-1020211004
 Sampled : 02/02/22
 Ordered : 02/02/22

 Sample Size Received : 30 ml
 Total Weight/Volume : N/A
 Completed : 02/15/22 Expires: 02/15/23
 Sample Method : SOP Client Method

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	Microbials	PASSED		Mycotoxins	PASSED
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Analyte	LOD	Result	Pass / Fail	Analyte	LOD	Units	Result	Pass / Fail	Action Level
ESCHERICHIA COLI SHIGELLA SPP		not present in 1 gram.	PASS	AFLATOXIN G2	0.002	ppm	ND	PASS	0.02
SALMONELLA SPECIFIC GENE		not present in 1 gram.	PASS	AFLATOXIN G1	0.002	ppm	ND	PASS	0.02
ASPERGILLUS FLAVUS		not present in 1 gram.	PASS	AFLATOXIN B2	0.002	ppm	ND	PASS	0.02
ASPERGILLUS FUMIGATUS		not present in 1 gram.	PASS	AFLATOXIN B1	0.002	ppm	ND	PASS	0.02
ASPERGILLUS NIGER		not present in 1 gram.	PASS	OCHRATOXIN A+	0.002	ppm	ND	PASS	0.02
ASPERGILLUS TERREUS		not present in 1 gram.	PASS	TOTAL MYCOTOXINS	0.002	ppm	ND	PASS	

Analysis Method -SOP.T.40.043

Analytical Batch -KN001951MIC Batch Date : 02/11/22 12:24:14

Instrument Used : Micro E-HEW-069

Running On :

Analyzed by	Weight	Extraction date	Extracted By
1692	1.0172g	02/11/22 12:02:45	1692

Dilution

1

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.

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

Analytical Batch -KN001938MYC | Reviewed On - 02/10/22 08:57:43

Instrument Used : E-SHI-125 Mycotoxins

Running On : 02/09/22 15:22:48 | Batch Date : 02/09/22 09:55:03

Analyzed by	Weight	Extraction date	Extracted By
143	0.5113g	02/09/22 11:02:56	143

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. Analytes ISO pending. *Based on FL action limits.

	Heavy Metals	PASSED
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Metal	LOD	Unit	Result	Pass / Fail	Action Level
ARSENIC-AS	0.02	ppm	ND	PASS	1.5
CADMIUM-CD	0.02	ppm	ND	PASS	0.5
MERCURY-HG	0.02	ppm	ND	PASS	3
LEAD-PB	0.02	ppm	ND	PASS	0.5

Analyzed by	Weight	Extraction date	Extracted By
12	0.2555g	02/15/22 08:02:31	12

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

Analytical Batch -KN001927HEA | Reviewed On - 02/14/22 14:48:02

Instrument Used : Metals ICP/MS

Running On : | Batch Date : 02/07/22 09:12:34

Reagent	Dilution	Consums. ID
121421.03	50	7226/0030021
120821.R22		210221060
011022.R08		
011022.R07		

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.

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Sue Ferguson
 Lab Director

 State License # n/a
 ISO Accreditation # 17025:2017


 Signature

02/15/22

Signed On