



Certificate of Analysis

Sample:KN20104004-003

Harvest/Lot ID: N/A

Batch#: SME123021

Seed to Sale# N/A

Batch Date: 12/30/21

Sample Size Received: 10 gram

Total Weight/Volume: N/A

Retail Product Size: 30 gram

Ordered : 12/30/21

sampled : 12/30/21

Completed: 01/05/22 Expires: 01/05/23

Sampling Method: SOP Client Method

PASSED

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Jan 05, 2022 | Star Manufacturing
Extraction

540 B Road
Labelle, FL, 33935, US

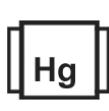
PRODUCT IMAGE



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

CANNABINOID RESULTS



Total THC
ND



Total CBD
1.446%



Total Cannabinoids
2.875%

	CBDV	CBD	CBDA	CBGA	CBG	CBD	THCV	CBN	EXO-THC	D9-THC	D8-THC	D10-THC	CBC	THCA	D8-THCO	D9-THCO
%	<0.01	1.614	<0.01	0.725	0.031	ND	0.016	ND	<0.01	ND	ND	ND	4.89	<0.01	ND	ND
mg/g	<0.1	16.14	<0.1	7.25	0.31	ND	0.16	ND	<0.1	ND	ND	ND	4.89	<0.1	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	0.001	0.002	0.002
%	%	%	%	%	%	%	%	%	%	%	%	%	%	%	%	%

	Filtration	
Analized By	Weight	Extraction date
12	0.5107g	01/04/22
Analyte	LOD	Result
Filtration and Foreign Material	0.3	ND
Analysis Method -SOP.T.40.013	Batch Date : 01/04/22 10:00:48	
Analytical Batch -KN001769FIL	Reviewed On - 01/04/22 17:02:58	
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

Analized by	Weight	Extraction date :	Extracted By :
113	0.2072g	01/04/22 03:01:57	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.			
Analytical Batch -KN001768POT Instrument Used : HPLC E-SH-008 Running On :			
Reagent	Dilution	Consums. ID	
091321.R04	40	94789291.217	
122821.R01		0030220	
122121.R02			

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.).
*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

01/05/22

Signed On



Certificate of Analysis

PASSED
Star Manufacturing Extraction

 540 B Road
 Labelle, FL, 33935, US
Telephone: (202) 570-0248
Email: bdickerson@star-hemp.com

Sample : KN20104004-003
Harvest/Lot ID: N/A
Batch# : SME123021
Sampled : 12/30/21
Ordered : 12/30/21
Sample Size Received : 10 gram
Total Weight/Volume : N/A
Completed : 01/05/22 Expires: 01/05/23
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	0.01	ppm	0.3	ND	PIPERONYL BUTOXIDE	0.01	ppm	3	ND
ACEPHATE	0.01	ppm	3	ND	PRALLETHRIN	0.01	ppm	0.4	ND
ACEQUINOCYL	0.01	ppm	2	ND	PROPICONAZOLE	0.01	ppm	1	ND
ACETAMIPRID	0.01	ppm	3	ND	PROPOXUR	0.01	ppm	0.1	ND
ALDICARB	0.01	ppm	0.1	ND	PYRETHRINS	0.01	ppm	1	ND
AZOXYSTROBIN	0.01	ppm	3	ND	PYRIDABEN	0.01	ppm	3	ND
BIFENAZATE	0.01	ppm	3	ND	SPINETORAM	0.01	ppm	3	ND
BIFENTHRIN	0.01	ppm	0.5	ND	SPIROMESIFEN	0.01	ppm	3	ND
BOSCALID	0.01	ppm	3	ND	SPIROTETRAMAT	0.01	ppm	3	ND
CARBARYL	0.01	ppm	0.5	ND	SPIROXAMINE	0.01	ppm	0.1	ND
CARBOFURAN	0.01	ppm	0.1	ND	TEBUCONAZOLE	0.01	ppm	1	ND
CHLORANTRANILIPROLE	0.01	ppm	3	ND	THIACLOPRID	0.01	ppm	0.1	ND
CHLORMEQUAT CHLORIDE	0.01	ppm	3	ND	THIAMETHOXAM	0.01	ppm	1	ND
CHLORPYRIFOS	0.01	ppm	0.1	ND	TOTAL SPINOSAD	0.01	ppm	3	ND
CLOFENTEZINE	0.01	ppm	0.5	ND	TRIFLOXYSTROBIN	0.01	ppm	3	ND
COUMAPHOS	0.01	ppm	0.1	ND					
CYPERMETHRIN	0.01	ppm	1	ND					
DAMINOZIDE	0.01	ppm	0.1	ND					
DIAZANON	0.01	ppm	0.2	ND					
DICHLORVOS	0.01	ppm	0.1	ND					
DIMETHOATE	0.01	ppm	0.1	ND					
DIMETHOMORPH	0.01	ppm	3	ND					
ETHOPROPHOS	0.01	ppm	0.1	ND					
ETOFENPROX	0.01	ppm	0.1	ND					
ETOXAZOLE	0.01	ppm	1.5	ND					
FENHEXAMID	0.01	ppm	3	ND					
FENOXYCARB	0.01	ppm	0.1	ND					
FENPYROXIMATE	0.01	ppm	2	ND					
FIPRONIL	0.01	ppm	0.1	ND					
FLONICAMID	0.01	ppm	2	ND					
FLUDIOXONIL	0.01	ppm	3	ND					
HEXYTHIAZOX	0.01	ppm	2	ND					
IMAZALIL	0.01	ppm	0.1	ND					
IMIDACLOPRID	0.01	ppm	3	ND					
KRESOXIM-METHYL	0.01	ppm	1	ND					
MALATHION	0.01	ppm	2	ND					
METALAXYL	0.01	ppm	3	ND					
METHIOCARB	0.01	ppm	0.1	ND					
METHOMYL	0.01	ppm	0.1	ND					
MEVINPHOS	0.01	ppm	0.1	ND					
MYCLOBUTANIL	0.01	ppm	3	ND					
NALED	0.01	ppm	0.5	ND					
OXAMYL	0.01	ppm	0.5	ND					
PACLOBUTRAZOL	0.01	ppm	0.1	ND					
PERMETHRINS	0.01	ppm	1	ND					
PHOSMET	0.01	ppm	0.2	ND					



Pesticides

PASSED
Analyzed by
 143

Weight
 0.511g

Extraction date
 01/04/22 02:01:11

Extracted By
 143

Analysis Method - SOP.T.30.060, SOP.T.40.060 ,
Analytical Batch - KN001764PES

Reviewed On- 01/04/22
 17:02:58

Instrument Used : E-SHI-125 Pesticides
Running On : 01/03/22 10:56:18

Batch Date : 01/03/22 09:17:12

Reagent
Dilution
Consums. ID

 051021.03
 121521.803
 122121.845
 010322.803
 122521.802

10

 200618634
 947.271

Pesticide screen is performed using LC-MS 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.T40.060 Procedure for Pesticide Quantification Using LCMS). Analytes ISO pending. *Based on FL action limits. *



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Telephone: (202) 570-0248
Email: bdickerson@star-hemp.com

Sample : KN20104004-003
Harvest/Lot ID: N/A
Batch# : SME123021
Sampled : 12/30/21
Ordered : 12/30/21
Sample Size Received : 10 gram
Total Weight/Volume : N/A
Completed : 01/05/22 Expires: 01/05/23
Sample Method : SOP Client Method

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	Residual Solvents	PASSED
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	Residual Solvents	PASSED
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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	15	ppm	2170	PASS	ND
- DIMETHYLBENZENE					

Analyzed by 138 **Weight** 0.02162g **Extraction date** 01/04/22 02:01:29 **Extracted By** 138
Analysis Method -SOP.T.40.032
Analytical Batch -KN001772SOL **Reviewed On - 01/05/22 13:21:40**
Instrument Used : E-SHI-106 Residual Solvents
Running On : 01/04/22 16:04:02
Batch Date : 01/04/22 12:13:47

Reagent	Dilution	Consums. ID
	1	

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.



Certificate of Analysis

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Star Manufacturing Extraction

 540 B Road
 Labelle, FL, 33935, US
 Telephone: (202) 570-0248
 Email: bdickerson@star-hemp.com

Sample : KN20104004-003
Harvest/Lot ID: N/A
Batch# : SME123021
Sampled : 12/30/21
Ordered : 12/30/21
Sample Size Received : 10 gram
Total Weight/Volume : N/A
Completed : 01/05/22 Expires: 01/05/23
Sample Method : SOP Client Method

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	Microbials	PASSED
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Analyte	LOD	Result
LISTERIA MONOCYTOGENE		not present in 1 gram.
ESCHERICHIA COLI SHIGELLA SPP		not present in 1 gram.
SALMONELLA SPECIFIC GENE		not present in 1 gram.
ASPERGILLUS FLAVUS		not present in 1 gram.
ASPERGILLUS FUMIGATUS		not present in 1 gram.
ASPERGILLUS NIGER		not present in 1 gram.
ASPERGILLUS TERREUS		not present in 1 gram.

Analysis Method -SOP.T.40.043
Analytical Batch -KN001766MIC Batch Date : 01/03/22 13:25:56
Instrument Used : Micro E-EHW-069
Running On :

Analyzed by	Weight	Extraction date	Extracted By
1692	1.015g	01/05/22 10:01:20	12

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.

	Mycotoxins	PASSED
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Analyte	LOD	Units	Result	Action Level
AFLATOXIN G2	0.002	ppm	ND	0.02
AFLATOXIN G1	0.002	ppm	ND	0.02
AFLATOXIN B2	0.002	ppm	ND	0.02
AFLATOXIN B1	0.002	ppm	ND	0.02
OCHRATOXIN A+	0.002	ppm	ND	0.02
TOTAL MYCOTOXINS	0.002	ppm	ND	

Analysis Method -SOP.T.30.060, SOP.T.40.060
Analytical Batch -KN001765MYC | Reviewed On - 01/05/22 08:51:37
Instrument Used : E-SHI-125 Mycotoxins
Running On : 01/03/22 10:56:25
Batch Date : 01/03/22 09:18:06

Analyzed by	Weight	Extraction date	Extracted By
143	0.511g	01/05/22 08:01:01	143

Aflatoxins B1, B2, G1, G2, and Ochratoxins A testing using LC-MS. (Method: SOP.T.30.060 for Sample Preparation and SOP.T40.060 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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Dilution

50

Metal	LOD	Unit	Result	Action Level
ARSENIC-AS	0.02	ppm	ND	1.5
CADMIUM-CD	0.02	ppm	ND	0.5
MERCURY-HG	0.02	ppm	ND	3
LEAD-PB	0.02	ppm	ND	0.5

Analyzed by	Weight	Extraction date	Extracted By
138	0.2507g	01/04/22 03:01:08	138

Analysis Method -SOP.T.40.050, SOP.T.30.052
Analytical Batch -KN001767HEA | Reviewed On - 01/05/22 16:33:08
Instrument Used : Metals ICP/MS
Running On : 01/04/22 15:45:19
Batch Date : 01/03/22 14:12:55

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.