



Certificate of Analysis

Feb 17, 2021 | Asterra Labs

800 Cooke Rd.
Nashville, NC, 27856, US



Sample:KN10209006-001

Harvest/Lot ID: 21B001

Seed to Sale #N/A

Batch Date :02/03/21

Batch#: 21B001

Sample Size Received: 13 units

Retail Product Size: 4

Ordered : 02/08/21

sampled : 02/08/21

Completed: 02/17/21 Expires: 02/17/22

Sampling Method: SOP Client Method

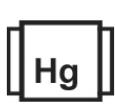
TESTED

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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
TESTED

MISC.

CANNABINOID RESULTS



Total THC

0.000%

TOTAL THC/Container :0.000 mg



Total CBD

0.341%

TOTAL CBD/Container :13.646 mg



Total Cannabinoids

0.341%

Total Cannabinoids/Container :13.646 mg

CBDV	CBDA	CBGA	CBG	CBD	THCV	CBN	D9-THC	D8-THC	CBC	THCA
ND	ND	ND	ND	0.341%	ND	ND	ND	ND	ND	ND
ND	ND	ND	ND	3.410 mg/g	ND	ND	ND	ND	ND	ND
LOD 0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01
%	%	%	%	%	%	%	%	%	%	%

Filtration	PASSED
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Analyzed By	Weight	Extraction date	Extracted By
142	0.5000g	NA	NA
Analyte	LOD	Result	
Filtration and Foreign Material	0.3	ND	
Analysis Method -SOP.T.40.013	Batch Date : 02/11/21 10:45:42		
Analytical Batch -KN000400FIL	Reviewed On - 02/11/21 13:24:42		
Instrument Used : E-AMS-138 Microscope			

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	Weight	Extraction date :	Extracted By :
113	0.2944g	NA	NA
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 -KN000391POT		Reviewed On - 02/16/21 15:42:08	Batch Date : 02/09/21 12:42:49
Instrument Used : HPLC E-SHI-008			
Reagent	Dilution	Consums. ID	
120320.R02	40	00298878	
020821.R08		190909059	
020221.R02		947.217	

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

02/17/2021

Signed On



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Asterra Labs

 800 Cooke Rd.
 Nashville, NC, 27856, US
Telephone: (252) 702-1537
Email: brian.warren@asterralabs.com

Sample : KN10209006-001
Harvest/LOT ID: 21B001
Batch# : 21B001
Sampled : 02/08/21
Ordered : 02/08/21
Sample Size Received : 13 units
Completed : 02/17/21 Expires: 02/17/22
Sample Method : SOP Client Method

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Terpenes

TESTED

Terpenes	LOD (%)	mg/g	%	Result (%)	Terpenes	LOD(%)	mg/g	%	Result (%)
ALPHA-PHELLANDRENE	.02	ND	ND		ISOPULEGOL	.02	ND	ND	
FENCHONE	.02	ND	ND		CIS-NEROLIDOL	.02	ND	ND	
GAMMA-TERPINENE	.02	ND	ND		3-CARENE	.02	ND	ND	
GERANIOL	.02	ND	ND		FENCHYL ALCOHOL	.02	ND	ND	
GERANYL ACETATE	.02	ND	ND		HEXAHYDROTHYMOL	.02	ND	ND	
GUAJOL	.02	ND	ND		EUCALYPTOL	.02	ND	ND	
LIMONENE	.02	ND	ND		ISOBORNEOL	.02	ND	ND	
LINALOOL	.02	ND	ND						
NEROL	.02	ND	ND						
OCIMENE	.02	ND	ND						
FARNESENE	.02	ND	ND						
PULEGONE	.02	ND	ND						
SABINENE	.02	ND	ND						
SABINENE HYDRATE	.02	ND	ND						
TERPINEOL	.02	ND	ND						
TERPINOLENE	.02	ND	ND						
TRANS-CARYOPHYLLENE	.02	ND	ND						
TRANS-NEROLIDOL	.02	ND	ND						
VALENCENE	.02	ND	ND						
CEDROL	.02	ND	ND						
ALPHA-HUMULENE	.02	ND	ND						
ALPHA-PINENE	.02	ND	ND						
ALPHA-TERPINENE	.02	ND	ND						
BETA-MYRCENE	.02	ND	ND						
BETA-PINENE	.02	ND	ND						
BORNEOL	.04	ND	ND						
CAMPHENE	.02	ND	ND						
CAMPHOR	.04	ND	ND						
CARYOPHYLLENE OXIDE	.02	ND	ND						
ALPHA-CEDRENE	.02	ND	ND						
ALPHA-BISABOLOL	.02	ND	ND						
Total (%)		0.000							



Terpenes

TESTED

Analyzed by	Weight	Extraction date	Extracted By
138	1.04284g	NA	NA

Analysis Method -SOP.T.40.090	Reviewed On - 02/12/21 15:35:12
Analytical Batch -KN000389TER	
Instrument Used : E-SHI-109 Terpenes	
Running On : 02/09/21 16:41:02	
Batch Date : 02/09/21 10:12:01	

Reagent	Dilution	Consums. ID
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Terpenoid profile screening is performed using GC-MS with Liquid Injection (Gas Chromatography - Mass Spectrometer) which can screen 38 terpenes using Method SOP.T.40.090 Terpenoid Analysis Via GC-MS. Analytes ISO Pending



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Nashville, NC, 27856, US
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Email: brian.warren@asterralabs.com

Sample : KN10209006-001

Harvest/LOT ID: 21B001

Batch# : 21B001

Sampled : 02/08/21

Ordered : 02/08/21

Sample Size Received : 13 units

Completed : 02/17/21 Expires: 02/17/22

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	0.05	ppm	0.3	ND	PIPERONYL BUTOXIDE	0.05	ppm	3	ND
ACEPHATE	0.05	ppm	3	ND	PRALLETHRIN	0.05	ppm	0.4	ND
ACEQUINOCYL	0.05	ppm	2	ND	PROPICONAZOLE	0.05	ppm	1	ND
ACETAMIPRID	0.05	ppm	3	ND	PROPOXUR	0.05	ppm	0.1	ND
ALDICARB	0.05	ppm	0.1	ND	PYRETHRINS	0.05	ppm	1	ND
AZOXYSTROBIN	0.05	ppm	3	ND	PYRIDABEN	0.10	ppm	3	ND
BIFENAZATE	0.05	ppm	3	ND	SPINETORAM	0.05	ppm	3	ND
BIFENTHRIN	0.05	ppm	0.5	ND	SPIROMESIFEN	0.05	ppm	3	ND
BOSCALID	0.05	ppm	3	ND	SPIROTETRAMAT	0.05	ppm	3	ND
CARBARYL	0.05	ppm	0.5	ND	SPIROXAMINE	0.05	ppm	0.1	ND
CARBOFURAN	0.05	ppm	0.1	ND	TEBUCONAZOLE	0.05	ppm	1	ND
CHLORANTRILIPROLE	0.05	ppm	3	ND	THIACLOPRID	0.05	ppm	0.1	ND
CHLORMEQUAT CHLORIDE	0.05	ppm	3	ND	THIAMETHOXAM	0.05	ppm	1	ND
CHLORPYRIFOS	0.05	ppm	0.1	ND	TOTAL SPINOSAD	0.02	ppm	3	ND
CLOFENTEZINE	0.10	ppm	0.5	ND	TRIFLOXYSTROBIN	0.05	ppm	3	ND
COUMAPHOS	0.05	ppm	0.1	ND					
CYPERMETHRIN	0.05	ppm	1	ND					
DAMINOZIDE	0.05	ppm	0.1	ND					
DIAZANON	0.05	ppm	0.2	ND					
DICHLORVOS	0.05	ppm	0.1	ND					
DIMETHOATE	0.05	ppm	0.1	ND					
DIMETHOMORPH	0.10	ppm	3	ND					
ETHOPROPHOS	0.05	ppm	0.1	ND					
ETOFENPROX	0.05	ppm	0.1	ND					
ETOXAZOLE	0.05	ppm	1.5	ND					
FENHEXAMID	0.05	ppm	3	ND					
FENOXYCARB	0.05	ppm	0.1	ND					
FENPYROXIMATE	0.05	ppm	2	ND					
FIPRONIL	0.05	ppm	0.1	ND					
FLONICAMID	0.05	ppm	2	ND					
FLUDIOXONIL	0.05	ppm	3	ND					
HEXYTHIAZOX	0.05	ppm	2	ND					
IMAZALIL	0.05	ppm	0.1	ND					
IMIDACLOPRID	0.05	ppm	3	ND					
KRESOXIM-METHYL	0.05	ppm	1	ND					
MALATHION	0.05	ppm	2	ND					
METALAXYL	0.05	ppm	3	ND					
METHIOCARB	0.05	ppm	0.1	ND					
METHOMYL	0.05	ppm	0.1	ND					
MEVINPHOS	0.05	ppm	0.1	ND					
MYCLOBUTANIL	0.05	ppm	3	ND					
NALED	0.05	ppm	0.5	ND					
OXAMYL	0.05	ppm	0.5	ND					
PACLOBUTRAZOL	0.05	ppm	0.1	ND					
PERMETHRINS	0.05	ppm	1	ND					
PHOSMET	0.05	ppm	0.2	ND					



Pesticides

PASSED

Analyzed by 143	Weight 1.0513g	Extraction date 02/09/21 03:02:09	Extracted By 143
Analysis Method - SOP.T.30.060, SOP.T.40.060 , Analytical Batch - KN000379PES		Reviewed On- 02/11/21 13:24:42	
Instrument Used : E-SHI-125 Pesticides Running On : 02/08/21 12:10:14		Batch Date : 02/08/21 08:38:08	
Reagent 012721.R003 020121.R003 020921.R002 020121.R002	Dilution 10	Consums. ID P7364369 00299697	
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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Email: brian.warren@asterralabs.com

Sample : KN10209006-001
Harvest/LOT ID: 21B001
Batch# : 21B001
Sampled : 02/08/21
Ordered : 02/08/21
Sample Size Received : 13 units
Completed : 02/17/21 Expires: 02/17/22
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 (PPM)	Pass/Fail	Result
PROPANE	500	ppm	5000	PASS	ND
BUTANES (N-BUTANE)	500	ppm	5000	PASS	ND
METHANOL	25	ppm	3000	PASS	ND
ETHYLENE OXIDE	0.5	ppm	5	PASS	ND
PENTANES (N-PENTANE)	75	ppm	750	PASS	ND
ETHANOL	500	ppm	5000	PASS	ND
ETHYL ETHER	50	ppm	500	PASS	ND
1,1-DICHLOROETHENE	0.8	ppm	8	PASS	ND
ACETONE	75	ppm	750	PASS	ND
2-PROPANOL	50	ppm	500	PASS	ND
ACETONITRILE	6	ppm	60	PASS	ND
DICHLOROMETHANE	12.5	ppm	125	PASS	ND
N-HEXANE	25	ppm	250	PASS	ND
ETHYL ACETATE	40	ppm	400	PASS	ND
CHLOROFORM	0.2	ppm	2	PASS	ND
BENZENE	0.1	ppm	1	PASS	ND
1,2-DICHLOROETHANE	0.2	ppm	2	PASS	ND
HEPTANE	500	ppm	5000	PASS	ND
TRICHLOROETHYLENE	2.5	ppm	25	PASS	ND
TOLUENE	15	ppm	150	PASS	ND
XYLENES-M&P (1,3&1,4-DIMETHYLBENZENE)	10	ppm	150	PASS	ND
XYLENES-O (1,2-DIMETHYLBENZENE)	5	ppm	150	PASS	ND

Analyzed by 138	Weight 0.02777g	Extraction date NA	Extracted By NA
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Analysis Method -SOP.T.40.032
Analytical Batch -KN000392SOL
Instrument Used : E-SHI-106 Residual Solvents
Running On : 02/10/21 16:43:17
Batch Date : 02/10/21 09:54:33

Reagent	Dilution	Consums. ID
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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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Telephone: (252) 702-1537
Email: brian.warren@asterralabs.com

Sample : KN10209006-001

Harvest/LOT ID: 21B001

Batch# : 21B001

Sampled : 02/08/21

Ordered : 02/08/21

Sample Size Received : 13 units

Completed : 02/17/21 Expires: 02/17/22

Sample Method : SOP Client Method

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	Microbials	PASSED
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Analyte	LOD	Result
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.
TOTAL YEAST AND MOLD	100	< 100 CFU

Analysis Method -SOP.T.40.043

Analytical Batch -KN000402MIC , KN000429TYM Batch Date : 02/11/21, 02/16/21

Instrument Used : Micro E-HEW-069, Micro E-HEW-069

Running On : 02/11/21, 02/16/21

Analyzed by	Weight	Extraction date	Extracted By
142, 142	1.0336g	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.

	Mycotoxins	PASSED
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Analyte	LOD	Units	Result	Action Level (PPM)
AFLATOXIN G2	0.005	ppm	ND	0.02
AFLATOXIN G1	0.005	ppm	ND	0.02
AFLATOXIN B2	0.005	ppm	ND	0.02
AFLATOXIN B1	0.005	ppm	ND	0.02
OCHRATOXIN A+	0.005	ppm	ND	0.02
TOTAL MYCOTOXINS		ppm	0.000	

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

Analytical Batch -KN000380MYC | Reviewed On - 02/10/21 13:54:38

Instrument Used : E-SHI-125 Mycotoxins

Running On : 02/08/21 12:10:32

Batch Date : 02/08/21 10:42:55

Analyzed by	Weight	Extraction date	Extracted By
143	1.0513g	02/09/21 03:02:32	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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Reagent	Consums. ID
020421.R05	7226/0030021
011521.R01	190428060
123020.R01	

Metal	LOD	Unit	Result	Action Level (PPM)
ARSENIC-AS	0.04	ppm	ND	1.5
CADMIUM-CD	0.04	ppm	ND	0.5
MERCURY-HG	0.04	ppm	ND	3
LEAD-PB	0.04	ppm	ND	0.5

Analyzed by	Weight	Extraction date	Extracted By
12	0.28207g	NA	NA

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

Analytical Batch -KN000403HEA

Instrument Used : Metals ICP/MS

Running On :

Batch Date : 02/11/21 15:21:04

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