



# Certificate of Analysis

Sample:KN30425001-003

Batch#: 23B004

Batch Date: 02/06/23

Sample Size Received: 16.6 gram

Retail Product Size: 4.1 gram

Ordered : 04/20/23

Sampled : 04/20/23

Completed: 04/28/23

**PASSED**

Page 1 of 5

Apr 28, 2023 | Asterra Labs

800 Cooke Rd.  
Nashville, NC, 27856, US



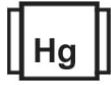
PRODUCT IMAGE



SAFETY RESULTS



Pesticides  
**PASSED**



Heavy Metals  
**PASSED**



Microbials  
**PASSED**



Mycotoxins  
**PASSED**



Residuals Solvents  
**PASSED**



Filtration  
**PASSED**



Water Activity  
**NOT TESTED**



Moisture  
**PASSED**



Terpenes  
**NOT TESTED**

MISC.



**Potency**

**PASSED**



Total THC

**ND**

Total THC/Gummy : 0 mg



Total CBD

**0.6978%**

Total CBD/Gummy : 28.61 mg



Total Cannabinoids

**0.6978%**

Total Cannabinoids/Gummy : 28.61 mg

	CBDV	CBDA	CBGA	CBG	CBD	THCV	CBN	EXO-THC	D9-THC	D8-THC	D10-THC	CBC	THCA	D8-THCO	D9-THCO	THC-O
%	<0.01	ND	ND	ND	0.6978	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
mg/g	<0.1	ND	ND	ND	6.978	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
LOD	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.002
	%	%	%	%	%	%	%	%	%	%	%	%	%	%	%	%

Analyzed by:  
2990

Weight:  
0.2032g

Extraction date:  
04/25/23 11:17:12

Extracted by:  
2990

Analysis Method : SOP.T.30.031.TN & SOP.T.40.031.TN Expanded Measurement of Uncertainty: Flower Matrix d9-THC: ± 0.100, THCA: ± 0.124, TOTAL THC ± 0.112. 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 : KN003699POT

Instrument Used : E-SHI-008

Running on : N/A

Reviewed On : 04/26/23 09:56:12

Batch Date : 04/24/23 08:14:51

Dilution : N/A

Reagent : 122922.11; 100422.02; 040423.R02; 041723.R01; 102722.25; 020323.09; 102722.26; 012523.R02

Consumables : 301011028; 20/04/01; 220725; 239146; 947B9291.271; GD220003; 1350331; 6121219; 600054; 220325059-D; IP250.100

Pipette : E-VWR-120

Full spectrum cannabinoid analysis utilizing High Performance Liquid Chromatography with UV/PDA detection (HPLC-UV/PDA). All cannabinoids have an LOQ of 0.01%.

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**Sue Ferguson**

Lab Director

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

Signature

04/28/23

Signed On



# Certificate of Analysis

**PASSED**

Asterra Labs

 800 Cooke Rd.  
 Nashville, NC, 27856, US  
 Telephone: (252) 702-1537  
 Email: ron.rogers@asterrallabs.com

Sample : KN30425001-003

 Batch# : 23B004  
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**Page 2 of 5**



## Pesticides

PASSED

Pesticide	LOD	Units	Action Level	Pass/Fail	Result	Pesticide	LOD	Units	Action Level	Pass/Fail	Result
ABAMECTIN B1A	0.012	ppm	0.3	PASS	ND	PRALLETHRIN	0.008	ppm	0.4	PASS	ND
ACEPHATE	0.008	ppm	3	PASS	ND	PROPICONAZOLE	0.007	ppm	1	PASS	ND
ACEQUINOCYL	0.038	ppm	2	PASS	ND	PROPOXUR	0.008	ppm	0.1	PASS	ND
ACETAMIPRID	0.009	ppm	3	PASS	ND	PYRETHRINS	0.002	ppm	1	PASS	ND
ALDICARB	0.009	ppm	0.1	PASS	ND	PYRIDABEN	0.007	ppm	3	PASS	ND
AZOXYSTROBIN	0.013	ppm	3	PASS	ND	SPINETORAM	0.004	ppm	3	PASS	ND
BIFENAZATE	0.028	ppm	3	PASS	ND	SPIROMESIFEN	0.009	ppm	3	PASS	ND
BIFENTHRIN	0.047	ppm	0.5	PASS	ND	SPIROTETRAMAT	0.009	ppm	3	PASS	ND
BOSCALID	0.007	ppm	3	PASS	ND	SPIROXAMINE	0.006	ppm	0.1	PASS	ND
CARBARYL	0.015	ppm	0.5	PASS	ND	TEBUCONAZOLE	0.009	ppm	1	PASS	ND
CARBOFURAN	0.008	ppm	0.1	PASS	ND	THIACLOPRID	0.008	ppm	0.1	PASS	ND
CHLORANTRANILIPROLE	0.012	ppm	1	PASS	ND	THIAMETHOXAM	0.009	ppm	1	PASS	ND
CHLORMEQUAT CHLORIDE	0.008	ppm	3	PASS	ND	TOTAL SPINOSAD	0.009	ppm	3	PASS	ND
CHLORPYRIFOS	0.014	ppm	0.1	PASS	ND	TRIFLOXYSTROBIN	0.009	ppm	3	PASS	ND
CLOFENTEZINE	0.006	ppm	0.5	PASS	ND						
COUMAPHOS	0.009	ppm	0.1	PASS	ND						
DAMINOZIDE	0.006	ppm	0.1	PASS	ND						
DIAZANON	0.006	ppm	0.2	PASS	ND						
DICHLORVOS	0.014	ppm	0.1	PASS	ND						
DIMETHOATE	0.009	ppm	0.1	PASS	ND						
DIMETHOMORPH	0.009	ppm	3	PASS	ND						
ETHOPROPHOS	0.007	ppm	0.1	PASS	ND						
ETOFENPROX	0.009	ppm	0.1	PASS	ND						
ETOXAZOLE	0.007	ppm	1.5	PASS	ND						
FENHEXAMID	0.005	ppm	3	PASS	ND						
FENOXYCARB	0.007	ppm	0.1	PASS	ND						
FENPYROXIMATE	0.006	ppm	2	PASS	ND						
FIPRONIL	0.008	ppm	0.1	PASS	ND						
FLONICAMID	0.014	ppm	2	PASS	ND						
FLUDIOXONIL	0.011	ppm	3	PASS	ND						
HEXYTHIAZOX	0.009	ppm	2	PASS	ND						
IMAZALIL	0.01	ppm	0.1	PASS	ND						
IMIDACLOPRID	0.005	ppm	3	PASS	ND						
KRESOXIM-METHYL	0.01	ppm	1	PASS	ND						
MALATHION	0.009	ppm	2	PASS	ND						
METALAXYL	0.008	ppm	3	PASS	ND						
METHIOCARB	0.008	ppm	0.1	PASS	ND						
METHOMYL	0.009	ppm	0.1	PASS	ND						
MEVINPHOS	0.001	ppm	0.1	PASS	ND						
MYCLOBUTANIL	0.006	ppm	3	PASS	ND						
NALED	0.023	ppm	0.5	PASS	ND						
OXAMYL	0.009	ppm	0.5	PASS	ND						
PACLOBUTRAZOL	0.007	ppm	0.1	PASS	ND						
PERMETHRINS	0.008	ppm	1	PASS	ND						
PHOSMET	0.009	ppm	0.2	PASS	ND						
PIPERONYL BUTOXIDE	0.006	ppm	3	PASS	ND						

Analyzed by: 2803	Weight: 1.0243g	Extraction date: 04/27/23 13:53:47	Extracted by: 2803
Analysis Method : SOP.T.40.101.TN		Reviewed On : 04/27/23 14:52:42	
Analytical Batch : KN003717PES		Batch Date : 04/27/23 13:44:53	
Instrument Used : E-SHI-125			
Running on : N/A			
Dilution : 0.01			
Reagent : 010523.R11; 030723.R19; 040623.R01; 040623.R02; 122322.R26; 101722.03; 032221.01			
Consumables : 301011028; K130252J; n/a; 220725; 21267B0; 251760; 201123-058; 211214634-D; 239146; GD210005; 1300.062			
Pipette : E-VWR-116; E-VWR-117; E-VWR-118; E-VWR-119			
Testing for agricultural agents is performed utilizing Liquid Chromatography with Triple-Quadrupole Mass Spectrometry.			
*Based on FL action limits.			

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**Sue Ferguson**

Lab Director

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

Signature

04/28/23

Signed On



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 800 Cooke Rd.  
 Nashville, NC, 27856, US  
 Telephone: (252) 702-1537  
 Email: ron.rogers@asterrallabs.com

Sample : KN30425001-003

 Batch# : 23B004  
 Sampled : 04/20/23  
 Ordered : 04/20/23

 Sample Size Received : 16.6 gram  
 Completed : 04/28/23 Expires: 04/28/24

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## Residual Solvents

**PASSED**

Solvents	LOD	Units	Action Level	Pass/Fail	Result
PROPANE	54	ppm	5000	PASS	ND
BUTANES (N-BUTANE)	51	ppm	5000	PASS	ND
METHANOL	20	ppm	250	PASS	ND
METHYLENE OXIDE	0.2	ppm	5	PASS	ND
PENTANES (N-PENTANE)	32	ppm	750	PASS	ND
ETHANOL	100	ppm	5000	PASS	4370.5869
ETHYL ETHER	10	ppm	500	PASS	ND
1,1-DICHLOROETHENE	0.6	ppm	8	PASS	ND
ACETONE	15	ppm	750	PASS	ND
2-PROPANOL	20	ppm	500	PASS	ND
ACETONITRILE	1.3	ppm	60	PASS	ND
DICHLOROMETHANE	2	ppm	125	PASS	ND
N-HEXANE	6	ppm	250	PASS	ND
ETHYL ACETATE	8.3	ppm	400	PASS	<40
CHLOROFORM	0.04	ppm	2	PASS	ND
BENZENE	0.03	ppm	1	PASS	ND
1,2-DICHLOROETHANE	0.05	ppm	2	PASS	ND
HEPTANE	53	ppm	5000	PASS	ND
TRICHLOROETHYLENE	0.5	ppm	25	PASS	ND
TOLUENE	5	ppm	150	PASS	ND
TOTAL XYLENES - M, P & O - DIMETHYLBENZENE	15	ppm	150	PASS	ND

Analyzed by: 138, 3050	Weight: 0.02639g	Extraction date: 04/26/23 10:12:25	Extracted by: 138
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Analysis Method : SOP.T.40.041.TN	Reviewed On : 04/27/23 15:30:41
Analytical Batch : KN003707SOL	Batch Date : 04/25/23 08:56:59
Instrument Used : E-SHI-106	
Running on : N/A	

Dilution : N/A
Reagent : N/A
Consumables : N/A
Pipette : N/A

Residual solvents analysis is performed using Gas Chromatography / Mass Spectrometry. \*Based on FL action limits.

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**Sue Ferguson**

Lab Director

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Signature

04/28/23

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**PASSED**

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
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 <b>Microbial</b> <span style="float: right;"><b>PASSED</b></span>						 <b>Mycotoxins</b> <span style="float: right;"><b>PASSED</b></span>					
Analyte	LOD	Units	Result	Pass / Fail	Action Level	Analyte	LOD	Units	Result	Pass / Fail	Action Level
ESCHERICHIA COLI SHIGELLA SPP			Not Present	PASS		AFLATOXIN G2	0.0016	ppm	ND	PASS	0.02
SALMONELLA SPECIFIC GENE			Not Present	PASS		AFLATOXIN G1	0.0012	ppm	ND	PASS	0.02
ASPERGILLUS FLAVUS			Not Present	PASS		AFLATOXIN B2	0.0012	ppm	ND	PASS	0.02
ASPERGILLUS FUMIGATUS			Not Present	PASS		AFLATOXIN B1	0.0012	ppm	ND	PASS	0.02
ASPERGILLUS NIGER			Not Present	PASS		OCHRATOXIN A+	0.002	ppm	ND	PASS	0.02
ASPERGILLUS TERREUS			Not Present	PASS		TOTAL MYCOTOXINS	0.002	ppm	ND	PASS	0.02
Analyzed by: 2805 Weight: 1.0307g Extraction date: 04/25/23 10:23:50 Extracted by: 2805						Analyzed by: 2803, 3050 Weight: 1.0243g Extraction date: 04/27/23 13:53:47 Extracted by: 2803					
Analysis Method : SOP.T.40.056C, SOP.T.40.041 LOD is 1 cfu Analytical Batch : KN003694MIC Instrument Used : E-HEW-069 Running on : N/A Dilution : N/A Reagent : 020323.02; 101822.09; 101822.07; 010923.03; 092222.01; 072722.06 Consumables : 22/04/01; 251773; 242429; 2DAX30621; P7528255; 41218-146C4-146C; 263989; 93825; 010205; 007109; 013209; n/a; 247040; 0150210 Pipette : E-THE-045; E-THE-046; E-THE-047; E-THE-048; E-THE-049; E-THE-050; E-THE-051; E-THE-052; E-THE-053; E-BIO-188						Analysis Method : SOP.T.40.101.TN Analytical Batch : KN003718MYC Instrument Used : E-SHI-125 Running on : N/A Dilution : 0.01 Reagent : 010523.R11; 030723.R19; 040623.R01; 040623.R02; 122322.R26; 101722.03; 032221.01 Consumables : 301011028; K130252; n/a; 220725; 21267B0; 251760; 201123-058; 211214634-D; 239146; GD210005; 1300.062 Pipette : E-VWR-116; E-VWR-117; E-VWR-118; E-VWR-119					
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. With an LOD of 1cfu, if a pathogenic E Coli, Salmonella, A fumigatus, A flavus, A niger, or A terreus is detected in 1g of a sample, the sample fails the microbiological-impurity testing.						Aflatoxins B1, B2, G1, G2, and Ochratoxins Mycotoxins testing utilizing Liquid Chromatography with Triple-Quadrupole Mass Spectrometry. *Based on FL action limits.					

 <b>Heavy Metals</b> <span style="float: right;"><b>PASSED</b></span>					
Metal	LOD	Units	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: 2837, 138 Weight: 0.2615g Extraction date: 04/25/23 16:36:34 Extracted by: 2837					
Analysis Method : SOP.T.30.082, SOP.T.40.082.TN Analytical Batch : KN003710HEA Instrument Used : E-AGI-084 Running on : N/A Dilution : N/A Reagent : 122922.11; 100422.02; 032723.R01; 031423.R13; 101722.05; 022023.01; 030923.R07; 031623.R01; 031423.R01; 022823.R12; 040523.R01; 040523.R02; 040523.R03; 031623.R02; 041923.R03; 041923.R13 Consumables : 257747; 829C6-829B; 221200; A260422A Pipette : E-EPP-081; E-EPP-082					
Heavy Metals analysis is performed using ICP-MS (Inductively Coupled Plasma - Mass Spectrometer) which can screen down to single digit ppb concentrations. LOQ is 0.04 ppm for all metals. *Based on FL action limits.					



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**Filth/Foreign Material** PASSED



**Moisture** PASSED

Analyte					Analyte				
Filth and Foreign Material					Moisture Content				
LOD	Units	Result	P/F	Action Level	LOD	Units	Result	P/F	Action Level
1	detect/g	ND	PASS	3	1	%	7.09	TESTED	
Analyzed by: 2805      Weight: 0.5368g      Extraction date: 04/25/23 10:24:43      Extracted by: 2805					Analyzed by: 2837, 2990      Weight: 0.508g      Extraction date: 04/25/23 13:26:33      Extracted by: 2837				
Analysis Method : SOP.T.40.090 Analytical Batch : KN003703FIL Instrument Used : E-AMS-138 Running on : N/A					Analysis Method : SOP.T.40.021 Analytical Batch : KN003705MOI Instrument Used : E-SHI-039 Running on : N/A				
Dilution : N/A Reagent : N/A Consumables : N/A Pipette : N/A					Dilution : N/A Reagent : 122922.11; 100422.01 Consumables : MOC63U; 239146 Pipette : E-VWR-120				
This includes but is not limited to hair, insects, feces, packaging contaminants, and manufacturing waste and by-products. A SW-2T13 Stereo Microscope is use for inspection.					Moisture Content analysis utilizing loss-on-drying technology in accordance with F.S. Rule 64ER20.39.				

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