



# Certificate of Analysis

Sample:KN30707002-002  
Harvest/Lot ID: 23F007  
Batch#: 23F007  
Batch Date: 06/20/23  
Sample Size Received: 15.1 gram  
Retail Product Size: 5.3 gram  
Ordered : 07/03/23  
Sampled : 07/03/23  
Completed: 07/12/23

Jul 12, 2023 | Asterra Labs  
800 Cooke Rd.  
Nashville, NC, 27856, US

ASTERRA Labs

**PASSED**

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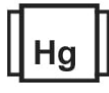
## PRODUCT IMAGE



## SAFETY RESULTS



Pesticides  
**PASSED**



Heavy Metals  
**PASSED**



Microbials  
**PASSED**



Mycotoxins  
**PASSED**



Residuals Solvents  
**PASSED**



Filtration  
**PASSED**



Water Activity  
**NOT TESTED**



Moisture  
**PASSED**



Terpenes  
**NOT TESTED**

## MISC.



## Potency

**PASSED**



Total THC

**0.171%**

Total THC/Gummy : 9.063 mg



D8-THC

**0.0133%**

D8-THC/Gummy : 0.705 mg



Total Cannabinoids

**0.1843%**

Total Cannabinoids/Gummy : 9.768 mg

%	CBDV	CBD	CBDA	CBGA	CBG	THCV	CBN	D9-THC	D8-THC	D10-THC	CBC	THCA
mg/g	ND	ND	<0.1	ND	ND	ND	<0.1	1.71	0.133	<0.1	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
%												

Analyzed by:  
2837, 2657

Weight:  
0.2045g

Extraction date:  
07/07/23 11:02:00

Extracted by:  
2837

**Analysis Method :** SOP.T.30.031.TN & SOP.T.40.031.TN Expanded Measurement of Uncertainty: Flower Matrix d9-THC:  $\pm 0.100$ , THCA:  $\pm 0.124$ , TOTAL THC  $\pm 0.112$ . 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 :** KN003933POT

**Instrument Used :** E-SHI-008

**Running on :** N/A

**Reviewed On :** 07/10/23 11:09:28

**Batch Date :** 07/07/23 08:42:25

**Dilution :** N/A

**Reagent :** 051123.02; 100422.02; 061623.R02; 070323.R03; 102722.17; 051123.09

**Consumables :** 302110210; 22/04/01; 220725; 230105059D; 239146; 94789291.271; GD210005; 1350331; 6121219; 600054; 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%.

**Sue Ferguson**

Lab Director

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

Signature

07/12/23

Signed On



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

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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	<div>Analyzed by: 2803Weight: 1.0193gExtraction date: 07/10/23 08:44:58Extracted by: 2803</div> <div>Analysis Method : SOP.T.30.101.TN, SOP.T.40.101.TN</div> <div>Analytical Batch : KN003938PES</div> <div>Instrument Used : E-SHI-125</div> <div>Running on : N/A</div> <div>Dilution : 0.01</div> <div>Reagent : 010523.R11; 030723.R19; 052623.R03; 062023.R01; 122322.R26; 101722.04; 011723.04; 032221.01</div> <div>Consumables : 302110210; 674277-E23452; 22/04/01; 01422036; 251760; 201123-058; 211214634-D; 239146; 94789291.271; GD220003; 1350331; 1300.062</div> <div>Pipette : E-VWR-116; E-VWR-117; E-VWR-118; E-VWR-119</div> <div>Testing for agricultural agents is performed utilizing Liquid Chromatography with Triple-Quadrupole Mass Spectrometry.</div> <div>*Based on FL action limits.</div>					
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						



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## Residual Solvents

**PASSED**

Solvents	LOD	Units	Action Level	Pass/Fail	Result
PROPANE	100	ppm	5000	PASS	ND
BUTANES (N-BUTANE)	100	ppm	5000	PASS	ND
METHANOL	20	ppm	250	PASS	ND
ETHYLENE OXIDE	0.2	ppm	5	PASS	ND
PENTANES (N-PENTANE)	32	ppm	750	PASS	ND
ETHANOL	100	ppm	5000	PASS	<380
ETHYL ETHER	10	ppm	500	PASS	ND
1,1-DICHLOROETHENE	0.6	ppm	8	PASS	ND
ACETONE	40	ppm	750	PASS	ND
2-PROPANOL	25	ppm	500	PASS	ND
ACETONITRILE	20	ppm	60	PASS	ND
DICHLOROMETHANE	2	ppm	125	PASS	ND
N-HEXANE	10	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: 0.02056g	Extraction date: 07/10/23 11:13:11	Extracted by: 138
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 Analysis Method : SOP.T.40.041.TN  
 Analytical Batch : KN003935SOL  
 Instrument Used : E-SHI-106  
 Running on : N/A

 Reviewed On : 07/12/23 15:50:22  
 Batch Date : 07/07/23 09:23:56

 Dilution : N/A  
 Reagent : N/A  
 Consumables : R2017.167; G201.167  
 Pipette : N/A

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





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<div>Microbial</div> <div>PASSED</div>						<div><div></div>Mycotoxins</div> <div>PASSED</div>					
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
Analized by: 2805	Weight: 1.0548g	Extraction date: 07/07/23 09:39:42	Extracted by: 2805			Analized by: 2803	Weight: 1.0193g	Extraction date: 07/10/23 08:44:58	Extracted by: 2803		
Analysis Method : SOP.T.40.056C, SOP.T.40.041 LOD is 1 CFU						Analysis Method : SOP.T.30.101.TN, SOP.T.40.101.TN					
Analytical Batch : KN003934MIC			Reviewed On : 07/10/23 15:34:23			Analytical Batch : KN003939MYC			Reviewed On : 07/10/23 12:38:35		
Instrument Used : E-HEW-069			Batch Date : 07/07/23 08:55:56			Instrument Used : E-SHI-125			Batch Date : 07/10/23 08:46:46		
Running on : N/A						Running on : N/A					
Dilution : N/A						Dilution : 0.01					
Reagent : 101822.09; 061623.01; 121322.01; 072722.06						Reagent : 010523.R11; 030723.R19; 052623.R03; 062023.R01; 122322.R26; 101722.04; 011723.04; 032221.01					
Consumables : 22/04/01; 251773; 242429; 2DAX30621; P7528255; 41218-146C4-146C; 263989; 93825; 007109; n/a; 247040; 0150210						Consumables : 302110210; 674277-E23452; 22/04/01; 01422036; 251760; 201123-058; 211214634-D; 239146; 947B9291.271; GD220003; 1350331; 1300.062					
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-THE-054; E-BIO-188						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.					



## Heavy Metals

**PASSED**

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	0.0824	PASS	0.5
Analized by: 2837, 3050	Weight: 0.2616g	Extraction date: 07/07/23 14:43:01	Extracted by: 2837		
Analysis Method : SOP.T.30.082, SOP.T.40.082.TN					
Analytical Batch : KN003930HEA			Reviewed On : 07/10/23 15:52:07		
Instrument Used : E-AGI-084			Batch Date : 07/06/23 11:13:43		
Running on : N/A					
Dilution : N/A					
Reagent : 051123.02; 100422.02; 061323.R04; 050323.R02; 101722.05; 022023.01; 061523.R03; 051523.R39; 031423.R01; 051523.R12; 051723.R03; 051723.R04; 051723.R05; 031623.R02; 041923.R03; 070623.R10; 051923.01					
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	LOD	Units	Result	P/F	Action Level	Analyte	LOD	Units	Result	P/F	Action Level
<b>Filth and Foreign Material</b>	1	detect/g	ND	<b>PASS</b>	3	<b>Moisture Content</b>	1	%	9.02	<b>TESTED</b>	
Analyzed by: 2805	Weight: 0.5005g	Extraction date: 07/07/23 09:40:19			Extracted by: 2805	Analyzed by: 2837, 2657	Weight: 0.521g	Extraction date: 07/07/23 11:06:02			Extracted by: 2837
Analysis Method : SOP.T.40.090 Analytical Batch : KN003889FIL Instrument Used : E-AMS-138 Running on : N/A						Analysis Method : SOP.T.40.021 Analytical Batch : KN003932MOI 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 : 051123.02; 100422.01 Consumables : 239146; MOC63U 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 used for inspection.

Moisture Content analysis utilizing loss-on-drying technology in accordance with F.S. Rule 64ER20.39.