



# Certificate of Analysis

Sample:KN30713002-001  
Harvest/Lot ID: 070723A  
Batch#: 070723A  
Batch Date: 07/07/23  
Sample Size Received: 15 gram  
Retail Product Size: 2 gram  
Ordered : 07/10/23  
Sampled : 07/10/23  
Completed: 07/14/23

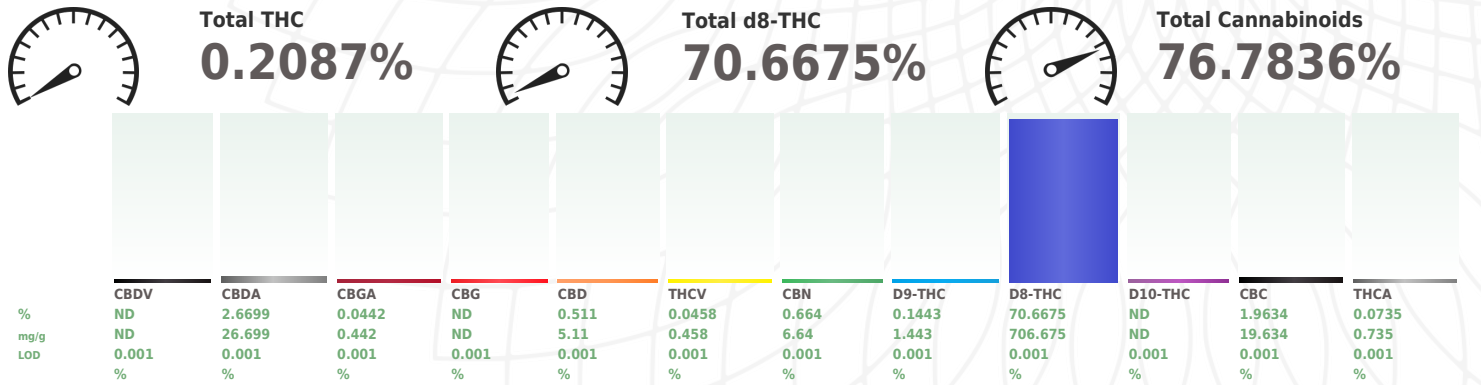
**PASSED**

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Jul 14, 2023 | Hemp Rolls  
Chattanooga, TN, 37432, US

PRODUCT IMAGE	SAFETY RESULTS								MISC.
	<b>PASSED</b>	<b>PASSED</b>	<b>PASSED</b>	<b>PASSED</b>	<b>PASSED</b>	<b>PASSED</b>	<b>NOT TESTED</b>	<b>NOT TESTED</b>	<b>NOT TESTED</b>

**Potency** **PASSED**



Analyzed by: 2657, 2990      Weight: 0.2047g      Extraction date: 07/13/23 09:36:51      Extracted by: 2837

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 : KN003952POT      Reviewed On : 07/14/23 12:14:12  
Instrument Used : E-SHI-008      Batch Date : 07/13/23 08:16:43  
Running on : N/A

Dilution : N/A  
Reagent : 051123.02; 100422.02; 071023.R02; 071023.R01; 102722.18; 051123.09  
Consumables : 302110210; 22/04/01; 220725; 230105059D; 239146; 947B9291.271; 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%.

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**Sue Ferguson**

Lab Director

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

Signature

07/14/23

Signed On



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Chattanooga, TN, 37432, US  
Telephone: (865)-964-9818  
Email: info@hemp-rolls.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	0.1	PASS	ND	PRALLETHRIN	0.008	ppm	0.4	PASS	ND
ACEPHATE	0.008	ppm	0.1	PASS	ND	PROPICONAZOLE	0.007	ppm	1	PASS	ND
ACEQUINOCYL	0.038	ppm	0.1	PASS	ND	PROPOXUR	0.008	ppm	0.1	PASS	ND
ACETAMIPRID	0.009	ppm	0.1	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	0.1	PASS	ND	SPINETORAM	0.004	ppm	3	PASS	ND
BIFENAZATE	0.028	ppm	0.1	PASS	ND	SPIROMESIFEN	0.009	ppm	3	PASS	ND
BIFENTHRIN	0.047	ppm	0.1	PASS	ND	SPIROTETRAMAT	0.009	ppm	0.1	PASS	ND
BOSCALID	0.007	ppm	0.1	PASS	ND	SPIROXAMINE	0.006	ppm	0.1	PASS	ND
CARBARYL	0.015	ppm	0.5	PASS	ND	TEBUCONAZOLE	0.009	ppm	0.1	PASS	ND
CARBOFURAN	0.008	ppm	0.1	PASS	ND	THIACLOPRID	0.008	ppm	0.1	PASS	ND
CHLORANTRANILIPROLE	0.012	ppm	3	PASS	ND	THIAMETHOXAM	0.009	ppm	0.5	PASS	ND
CHLORMEQUAT CHLORIDE	0.008	ppm	1	PASS	ND	TOTAL SPINOSAD	0.009	ppm	0.1	PASS	ND
CHLORPYRIFOS	0.014	ppm	0.1	PASS	ND	TRIFLOXYSTROBIN	0.009	ppm	0.1	PASS	ND
CLOFENTEZINE	0.006	ppm	0.2	PASS	ND						
COUMAPHOS	0.009	ppm	0.1	PASS	ND	Analized by:	Weight:	Extraction date:	Extracted by:		
DAMINOZIDE	0.006	ppm	0.1	PASS	ND	2803	1.0518g	07/14/23 10:20:49	2803		
DIAZANON	0.006	ppm	0.1	PASS	ND	Analysis Method :SOP.T.30.101.TN, SOP.T.40.101.TN					
DICHLORVOS	0.014	ppm	0.1	PASS	ND	Analytical Batch :KN003958PES			Reviewed On :07/14/23 12:58:33		
DIMETHOATE	0.009	ppm	0.1	PASS	ND	Instrument Used :E-SHI-125			Batch Date :07/14/23 10:18:57		
DIMETHOMORPH	0.009	ppm	3	PASS	ND	Running on :N/A					
ETHOPROPHOS	0.007	ppm	0.1	PASS	ND	Dilution : 0.01					
ETOFENPROX	0.009	ppm	0.1	PASS	ND	Reagent : 010523.R11; 010523.R13; 030723.R19; 071023.R03; 062023.R01; 122322.R26; 101722.04; 011723.03; 032221.01					
ETOXAZOLE	0.007	ppm	1.5	PASS	ND	Consumables : 302110210; K130252; 22/04/01; 01422036; 251760; 201123-058; 211214634-D; 239146; 94789291.271; GD220003; 1350331; 1300.062					
FENHEXAMID	0.005	ppm	3	PASS	ND	Pipette : E-VWR-116; E-VWR-117; E-VWR-118; E-VWR-119					
FENOXYCARB	0.007	ppm	0.1	PASS	ND	Testing for agricultural agents is performed utilizing Liquid Chromatography with Triple-Quadrupole Mass Spectrometry.					
FENPYROXIMATE	0.006	ppm	2	PASS	ND	*Based on FL action limits.					
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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**Sue Ferguson**

Lab Director

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

Signature

07/14/23

Signed On



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Hemp Rolls

 Chattanooga, TN, 37432, US.  
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 Email: info@hemp-rolls.com

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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	ND
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	ND
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: NA	Extraction date: N/A	Extracted by: 138
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Analysis Method : SOP.T.40.041.TN Analytical Batch : KN003953SOL Instrument Used : E-SHI-106 Running on : N/A	Reviewed On : 07/14/23 17:21:28 Batch Date : 07/13/23 08:39:56
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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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 Harvest/Lot ID: 070723A

 Batch# : 070723A  
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 Sample Size Received : 15 gram  
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	<b>Microbial</b>	<b>PASSED</b>		<b>Mycotoxins</b>	<b>PASSED</b>
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Analyte	LOD	Units	Result	Pass / Fail	Action Level
ESCHERICHIA COLI SHIGELLA SPP			Not Present	PASS	
SALMONELLA SPECIFIC GENE			Not Present	PASS	
ASPERGILLUS FLAVUS			Not Present	PASS	
ASPERGILLUS FUMIGATUS			Not Present	PASS	
ASPERGILLUS NIGER			Not Present	PASS	
ASPERGILLUS TERREUS			Not Present	PASS	

Analyzed by: 2805	Weight: 1.0347g	Extraction date: 07/13/23 09:49:42	Extracted by: 2805
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Analysis Method : SOP.T.40.056C, SOP.T.40.041 LOD is 1 CFU  
 Analytical Batch : KN003954MIC Reviewed On : 07/14/23 11:28:20  
 Instrument Used : E-HEW-069 Batch Date : 07/13/23 09:12:17  
 Running on : N/A

Dilution : N/A  
 Reagent : 101822.09; 061623.02; 121322.01; 042723.02  
 Consumables : 22/04/01; 251773; 242429; 2DAX30621; P7528255; 41218-146C4-146C; 263989; 93825; 007109; 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-THE-054; E-BIO-188

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.

Analyte	LOD	Units	Result	Pass / Fail	Action Level
AFLATOXIN G2	0.0016	ppm	ND	PASS	0.02
AFLATOXIN G1	0.0012	ppm	ND	PASS	0.02
AFLATOXIN B2	0.0012	ppm	ND	PASS	0.02
AFLATOXIN B1	0.0012	ppm	ND	PASS	0.02
OCHRATOXIN A+	0.002	ppm	ND	PASS	0.02
TOTAL MYCOTOXINS	0.002	ppm	ND	PASS	0.02

Analyzed by: 2803, 3050	Weight: 1.0518g	Extraction date: 07/14/23 10:20:49	Extracted by: 2803
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Analysis Method : SOP.T.30.101.TN, SOP.T.40.101.TN  
 Analytical Batch : KN003959MYC Reviewed On : 07/14/23 17:21:19  
 Instrument Used : E-SHI-125 Batch Date : 07/14/23 10:24:59  
 Running on : N/A

Dilution : 0.01  
 Reagent : 010523.R11; 010523.R13; 030723.R19; 071023.R03; 062023.R01; 122322.R26; 101722.04; 011723.03; 032221.01  
 Consumables : 302110210; K130252J; 22/04/01; 01422036; 251760; 201123-058; 211214634-D; 239146; 947B9291.271; GD220003; 1350331; 1300.062  
 Pipette : E-VWR-116; E-VWR-117; E-VWR-118; E-VWR-119

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>	<b>PASSED</b>
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Metal	LOD	Units	Result	Pass / Fail	Action Level
ARSENIC-AS	0.02	ppm	ND	PASS	0.2
CADMIUM-CD	0.02	ppm	ND	PASS	0.2
MERCURY-HG	0.02	ppm	ND	PASS	0.2
LEAD-PB	0.02	ppm	ND	PASS	0.5

Analyzed by: 2837, 138	Weight: 0.2631g	Extraction date: 07/13/23 13:33:52	Extracted by: 2837
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Analysis Method : SOP.T.30.082, SOP.T.40.082.TN  
 Analytical Batch : KN003955HEA Reviewed On : 07/14/23 11:20:05  
 Instrument Used : E-AGI-084 Batch Date : 07/13/23 09:41:34  
 Running on : N/A

Dilution : N/A  
 Reagent : 051123.02; 100422.02; 070623.R10; 050323.R02; 101722.05; 051923.01; 061523.R03; 051523.R39; 031423.R01; 051523.R12; 051723.R03; 051723.R04; 051723.R05; 031623.R02; 041923.R03  
 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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	<b>Filth/Foreign Material</b>	<b>PASSED</b>
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Analyte	LOD	Units	Result	P/F	Action Level
Filth and Foreign Material	1	detect/g	ND	PASS	3

Analyzed by: 2805	Weight: 0.5413g	Extraction date: 07/13/23 09:51:06	Extracted by: 2805
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Analysis Method : SOP.T.40.090	Reviewed On : 07/13/23 16:16:16
Analytical Batch : KN003889FIL	Batch Date : 06/20/23 09:38:43
Instrument Used : E-AMS-138	
Running on : N/A	

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

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.

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