



Certificate of Analysis

Sample: KN20524001-004
Harvest/Lot ID: Puka-crt-1mL-hc-bd-002
Batch#: Puka-crt-1mL-hc-bd-002
Seed to Sale# N/A
Batch Date: 05/01/22
Sample Size Received: 11 gram
Total Weight/Volume: N/A
Retail Product Size: 1 gram
ordered : 05/18/22
sampled : 05/18/22
Completed: 06/01/22
Sampling Method: SOP Client Method

NOT FOR RETAIL

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Jun 01, 2022 | Carolina Hemp Refinery
800 UNION RIDGE ROAD
BURLINGTON, NC, 27217, US

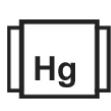
PRODUCT IMAGE



SAFETY RESULTS



Pesticides
TESTED



Heavy Metals
TESTED



Microbials
TESTED



Mycotoxins
TESTED



Residuals Solvents
TESTED



Filtration
TESTED



Water Activity
NOT TESTED



Moisture
NOT TESTED



Terpenes
TESTED

MISC.



Cannabinoid

TESTED



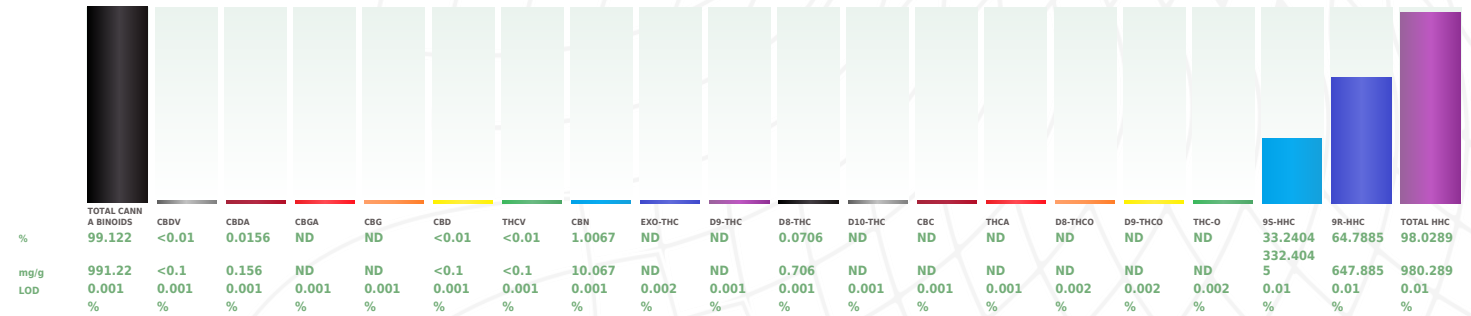
Total CBN
1.007%



Total HHC
98.029%



Total Cannabinoids
99.122%



Analized by **113** Weight **0.2255g** Extraction date : **05/26/22 13:17:01** Extracted By : **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.
 Reviewed On - 05/26/22 13:54:17 Batch Date : 05/25/22 10:51:47
 Analytical Batch -KN002453POT Instrument Used : HPLC E-SHI-008 Running On :

Dilution : 40
 Reagent : 081321.R04; 051222.R01; 052522.R01
 Consumables : 947B9291.271; 200331059
 Full spectrum cannabinoid analysis utilizing High Performance Liquid Chromatography with UV/PDA detection (HPLC-UV/PDA). (Method: SOP.T.30.031.TN for sample prep and Shimadzu High Sensitivity Method SOP.T.40.020 for analysis.). *Based on FL action limits.
 Analyzed by **1, 138, 12** Weight **0.2255g** Extraction date : **06/01/22 08:42:52** Extracted By : **138**
 Analysis Method -SOP.T.30.074, SOP.T.40.074 Reviewed On - 06/01/22 15:25:19 Batch Date : 05/27/22 10:32:37
 Analytical Batch -KN002472HHC Instrument Used : E-AGI-178 Running On :

Analysis Method SOP.T.30.050 Description: Total Hexahydrocannabinol (9S & 9R-HHC) analysis is performed using GC-MS with Liquid Injection (Gas Chromatography - Mass Spectrometer) Analytes ISO Pending

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Sue Ferguson

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

Sue Ferguson
 Signature

06/01/22

Signed On



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NOT FOR RETAIL

Carolina Hemp Refinery

 800 UNION RIDGE ROAD
 BURLINGTON, NC, 27217, US
 Telephone: (919) 641-8691
 Email: ryan@singlesourced.com

 Sample : KN20524001-004
 Harvest/Lot ID: Puka-crt-1mL-hc-bd-002

 Batch# : Puka-crt-1mL-hc-bd-002
 Sample Size Received : 11 gram
 Total Weight/Volume : N/A
 Sampled : 05/18/22
 Completed : 06/01/22 Expires: 06/01/23
 Odered : 05/18/22
 Sample Method : SOP Client Method

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Pesticides

TESTED

Pesticide	LOD	Units	Action Level	Pass/Fail	Result	Pesticide	LOD	Units	Action Level	Pass/Fail	Result
ABAMECTIN B1A	0.01	ppm	0.3	TESTED	ND	PIPERONYL BUTOXIDE	0.01	ppm	3	TESTED	ND
ACEPHATE	0.01	ppm	3	TESTED	ND	PRALLETHRIN	0.01	ppm	0.4	TESTED	ND
ACEQUINOCYL	0.01	ppm	2	TESTED	ND	PROCONAZOLE	0.01	ppm	1	TESTED	ND
ACETAMIPRID	0.01	ppm	3	TESTED	ND	PROPOXUR	0.01	ppm	0.1	TESTED	ND
ALDICARB	0.01	ppm	0.1	TESTED	ND	PYRETHRINS	0.01	ppm	1	TESTED	ND
AZOXYSTROBIN	0.01	ppm	3	TESTED	ND	PYRIDABEN	0.01	ppm	3	TESTED	ND
BIFENAZATE	0.01	ppm	3	TESTED	ND	SPINETORAM	0.01	ppm	3	TESTED	ND
BIFENTHRIN	0.01	ppm	0.5	TESTED	ND	SPIROMESIFEN	0.01	ppm	3	TESTED	ND
BOSCALID	0.01	ppm	3	TESTED	ND	SPIROTETRAMAT	0.01	ppm	3	TESTED	ND
CARBARYL	0.01	ppm	0.5	TESTED	ND	SPIROXAMINE	0.01	ppm	0.1	TESTED	ND
CARBOFURAN	0.01	ppm	0.1	TESTED	ND	TEBUCONAZOLE	0.01	ppm	1	TESTED	ND
CHLORANTRANILIPROLE	0.01	ppm	3	TESTED	ND	THIACLOPRID	0.01	ppm	0.1	TESTED	ND
CHLORMEQUAT CHLORIDE	0.01	ppm	3	TESTED	ND	THIAMETHOXAM	0.01	ppm	1	TESTED	ND
CHLORPYRIFOS	0.01	ppm	0.1	TESTED	ND	TOTAL SPINOSAD	0.01	ppm	3	TESTED	ND
CLOFENTEZINE	0.01	ppm	0.5	TESTED	ND	TRIFLOXYSTROBIN	0.01	ppm	3	TESTED	ND
COUMAPHOS	0.01	ppm	0.1	TESTED	ND						
CYPERMETHRIN	0.01	ppm	1	TESTED	ND						
DAMINOZIDE	0.01	ppm	0.1	TESTED	ND						
DIAZANON	0.01	ppm	0.2	TESTED	ND						
DICHLORVOS	0.01	ppm	0.1	TESTED	ND						
DIMETHOATE	0.01	ppm	0.1	TESTED	ND						
DIMETHOMORPH	0.01	ppm	3	TESTED	ND						
ETHOPROPHOS	0.01	ppm	0.1	TESTED	ND						
ETOFENPROX	0.01	ppm	0.1	TESTED	ND						
ETOXAZOLE	0.01	ppm	1.5	TESTED	ND						
FENHEXAMID	0.01	ppm	3	TESTED	ND						
FENOXYCARB	0.01	ppm	0.1	TESTED	ND						
FENPYROXIMATE	0.01	ppm	2	TESTED	ND						
FIPRONIL	0.01	ppm	0.1	TESTED	ND						
FLONICAMID	0.01	ppm	2	TESTED	ND						
FLUDIOXONIL	0.01	ppm	3	TESTED	ND						
HEXYTHIAZOX	0.01	ppm	2	TESTED	ND						
IMAZALIL	0.01	ppm	0.1	TESTED	ND						
IMIDACLOPRID	0.01	ppm	3	TESTED	ND						
KRESOXIM-METHYL	0.01	ppm	1	TESTED	ND						
MALATHION	0.01	ppm	2	TESTED	ND						
METALAXYL	0.01	ppm	3	TESTED	ND						
METHIOCARB	0.01	ppm	0.1	TESTED	ND						
METHOMYL	0.01	ppm	0.1	TESTED	ND						
MEVINPHOS	0.01	ppm	0.1	TESTED	ND						
MYCLOBUTANIL	0.01	ppm	3	TESTED	ND						
NALED	0.01	ppm	0.5	TESTED	ND						
OXAMYL	0.01	ppm	0.5	TESTED	ND						
PACLOBUTRAZOL	0.01	ppm	0.1	TESTED	ND						
PERMETHRINS	0.01	ppm	1	TESTED	ND						
PHOSMET	0.01	ppm	0.2	TESTED	ND						



Pesticides

TESTED

Analysis Method -SOP.T.30.060, SOP.T.40.060
Analytical Batch -KN002490PES
Instrument Used : E-SHI-125 Pesticides
Running on :
Reviewed On :06/01/22 20:16:09
Batch Date :06/01/22 19:43:33

Analyzed by: 1, 12	Weight: 6g	Extraction date: NA	Extracted by: NA
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Dilution : 1
Reagent :
Consumables :

Pesticide analysis is performed using LC-MSMS which can quantify down to below single digit ppb concentrations for regulated Pesticides. Currently we analyze for 61 Pesticides. (Methods: SOP.T.30.065 Sample Preparation for Pesticides Analysis via LCMSMS and SOP.T40.065 Procedure for Pesticide Quantification Using LCMSMS). *Based on FL action limits.

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Sue Ferguson

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


 Signature

06/01/22

Signed On



Certificate of Analysis

NOT FOR RETAIL

Carolina Hemp Refinery

 800 UNION RIDGE ROAD
 BURLINGTON, NC, 27217, US
 Telephone: (919) 641-8691
 Email: ryan@singlesourced.com

 Sample : KN20524001-004
 Harvest/Lot ID: Puka-crt-1mL-hc-bd-002

 Batch# : Puka-crt-1mL-hc-bd-002
 Sampled : 05/18/22
 Odered : 05/18/22
 Sample Size Received : 11 gram
 Total Weight/Volume : N/A
 Completed : 06/01/22 Expires: 06/01/23
 Sample Method : SOP Client Method

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Residual Solvents

TESTED

Solvents	LOD	Units	Action Level	Pass/Fail	Result
PROPANE	500	ppm	2100	TESTED	ND
BUTANES (N-BUTANE)	500	ppm	2000	TESTED	ND
METHANOL	25	ppm	3000	TESTED	ND
ETHYLENE OXIDE	0.5	ppm	5	TESTED	ND
PENTANES (N-PENTANE)	75	ppm	5000	TESTED	ND
ETHANOL	500	ppm	5000	TESTED	ND
ETHYL ETHER	50	ppm	5000	TESTED	ND
1,1-DICHLOROETHENE	0.8	ppm	8	TESTED	ND
ACETONE	75	ppm	5000	TESTED	ND
2-PROPANOL	50	ppm	500	TESTED	ND
ACETONITRILE	6	ppm	410	TESTED	ND
DICHLOROMETHANE	12.5	ppm	600	TESTED	ND
N-HEXANE	25	ppm	290	TESTED	ND
ETHYL ACETATE	40	ppm	5000	TESTED	ND
CHLOROFORM	0.2	ppm	60	TESTED	ND
BENZENE	0.1	ppm	2	TESTED	ND
1,2-DICHLOROETHANE	0.2	ppm	5	TESTED	ND
HEPTANE	500	ppm	5000	TESTED	ND
TRICHLOROETHYLENE	2.5	ppm	80	TESTED	ND
TOLUENE	15	ppm	890	TESTED	ND
TOTAL XYLENES - M, P & O - DIMETHYLBENZENE	15	ppm	2170	TESTED	ND



Solvents

TESTED

Analyzed by 138, 1, 12	Weight 0.02789g	Extraction date 05/26/22 17:08:57	Extracted By 138
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Analysis Method -SOP.T.40.032

Analytical Batch -KN002463SOL

Instrument Used : E-SHI-106 Residual Solvents

Running On :

Batch Date : 05/26/22 13:01:22

Reviewed On - 06/01/22 16:20:12

Dilution : 1

Reagent :

Consumables : R2017.120; G201.126

Residual solvents analysis 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). *Based on FL action limits.



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Sample : KN20524001-004
Harvest/Lot ID: Puka-crt-1mL-hc-bd-002
Batch# : Puka-crt-1mL-hc-bd-002
Sampled : 05/18/22
Odered : 05/18/22

Sample Size Received : 11 gram
Total Weight/Volume : N/A
Completed : 06/01/22 Expires: 06/01/23
Sample Method : SOP Client Method

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 Microbial						 Mycotoxins					
TESTED						TESTED					
Analyte	LOD	Units	Result	Pass / Fail	Action Level	Analyte	LOD	Units	Result	Pass / Fail	Action Level
LISTERIA MONOCYTOGENE	2000	RFU	ND	TESTED	2000	AFLATOXIN G2	0.002	ppm	ND	TESTED	0.02
ESCHERICHIA COLI SHIGELLA SPP	1726	RFU	ND	TESTED	1726	AFLATOXIN G1	0.002	ppm	ND	TESTED	0.02
SALMONELLA SPECIFIC GENE	10000	RFU	ND	TESTED	10000	AFLATOXIN B2	0.002	ppm	ND	TESTED	0.02
ASPERGILLUS FLAVUS	10000	RFU	ND	TESTED	10000	AFLATOXIN B1	0.002	ppm	ND	TESTED	0.02
ASPERGILLUS FUMIGATUS	10000	RFU	ND	TESTED	10000	OCHRATOXIN A+	0.002	ppm	ND	TESTED	0.02
ASPERGILLUS NIGER	10000	RFU	ND	TESTED	10000	TOTAL MYCOTOXINS	0.002	ppm	ND	TESTED	0.02
ASPERGILLUS TERREUS	10000	RFU	ND	TESTED	10000						

Analysis Method - SOP.T.40.043
Analytical Batch - KN002438MIC
Instrument Used : Micro E-HEW-069
Running on : 05/24/22 12:58:50

Reviewed On : 05/27/22 17:35:47
Batch Date : 05/23/22 09:42:03

Analyzed by: NA Weight: NA Extraction date: NA Extracted by: NA


Dilution : 1
Reagent : 042222.01; 031022.01; 122021.03
Consumables : P7530724

Analysis Method -SOP.T.30.060, SOP.T.40.060
Analytical Batch -25388 | Reviewed On - 06/01/22 20:50:33
Instrument Used :
Running On : | Batch Date :

Analyzed by Weight Extraction date Extracted By
NA NA NA NA

Aflatoxins B1, B2, G1, G2, and Ochratoxins A testing using LC-MS. (Method: SOP.T.30.060 for Sample Preparation and SOP.T40.065 Procedure for Mycotoxins Quantification Using LCMSMS. LOQ 5.0 ppb). *Based on FL action limits.

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.

 Heavy Metals						TESTED					
Metal	LOD	Units	Result	Pass / Fail	Action Level	Metal	LOD	Units	Result	Pass / Fail	Action Level
ARSENIC-AS	0.02	ppm	ND	TESTED	1.5						
CADMIUM-CD	0.02	ppm	ND	TESTED	0.5						
MERCURY-HG	0.02	ppm	ND	TESTED	3						
LEAD-PB	0.02	ppm	1.2293	TESTED	0.5						

Analyzed by Weight Extraction date Extracted By
1, 12 0.2618g 05/27/22 15:52:51 12

Analysis Method -SOP.T.40.050, SOP.T.30.052
Analytical Batch -KN002462HEA | Reviewed On - 06/01/22 16:22:30
Instrument Used : Metals ICP/MS
Running On : | Batch Date : 05/26/22 10:56:40

Dilution : 50
Reagent : 121621.02; 011022.R08; 032522.01; 040822.01; 020422.R07; 030422.R15; 011022.R07
Consumables : 108779-06-102921; CFT415500

Heavy Metals screening is performed using ICP-MS (Inductively Coupled Plasma – Mass Spectrometer) which can screen down to single digit ppb concentrations for regulated heavy metals using Method SOP.T.30.082 Sample Preparation for Heavy Metals Analysis via ICP-MS and SOP.T.40.082TN Heavy Metals Analysis via ICP-MS.



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Harvest/Lot ID: Puka-crt-1mL-hc-bd-002

Batch# : Puka-crt-1mL-hc-bd-002

Sampled : 05/18/22
Odered : 05/18/22

Sample Size Received : 11 gram
Total Weight/Volume : N/A

Completed : 06/01/22 Expires: 06/01/23
Sample Method : SOP Client Method

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**Filth/Foreign
Material**

TESTED

Analyte	LOD	Units	Result	P/F	Action Level
Filth and Foreign Material	1	detect/g	ND	TESTED	3
Analyzed By	Weight	Extraction date	Extracted By		
1692	0.1351g	05/24/22	1692		
Analysis Method -SOP.T.40.013		Batch Date : 05/23/22 09:46:28			
Analytical Batch -KN002440FIL		Reviewed On - 05/24/22 10:30:24			
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 use for inspection.