



Certificate of Analysis

Sample:KN20920002-002
Harvest/Lot ID: 0914WGAPPK112
Batch#: 0914WGAPPK112
Seed to Sale# N/A
Batch Date: 09/14/22
Sample Size Received: 16.5 gram
Total Batch Size: N/A
Retail Product Size: 60 gram
Ordered : 09/13/22
Sampled : 09/13/22
Completed: 09/23/22
Sampling Method: N/A

PASSED

Page 1 of 6

Sep 23, 2022 | Wunderkind
704 interstate business park
fredericksburg, VA, 22405, US



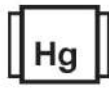
PRODUCT IMAGE



SAFETY RESULTS



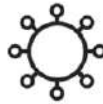
Pesticides
PASSED



Heavy Metals
PASSED



Microbials
PASSED



Mycotoxins
PASSED



Residuals Solvents
PASSED



Filtration
PASSED



Water Activity
NOT TESTED



Moisture
NOT TESTED



Terpenes
TESTED

MISC.



Cannabinoid

PASSED



Total THC
0.1504%



Total CBD
0.1504%



Total Cannabinoids
0.5741%

	CBDV	CBDA	CBGA	CBG	CBD	THCV	CBN	EXO-THC	D9-THC	D8-THC	D10-THC	CBC	THCA	D8-THCO	D9-THCO	THC-O
%	ND	ND	ND	ND	0.1504	ND	0.2733	ND	0.1504	<0.01	ND	<0.01	ND	ND	ND	ND
mg/g	ND	ND	ND	ND	1.504	ND	2.733	ND	1.504	<0.1	ND	<0.1	ND	ND	ND	ND
LOD	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.002	0.001	0.001	0.001	0.001	0.001	0.002	0.002	0.002
%	%	%	%	%	%	%	%	%	%	%	%	%	%	%	%	%

Analyzed by:
2837, 2692

Weight:
0.205g

Extraction date:
09/20/22 09:49:00

Extracted by:
2837

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 : KN002914POT
Instrument Used : HPLC E-SHI-008
Running on : N/A

Reviewed On : 09/20/22 15:11:35
Batch Date : 09/19/22 14:19:47

Dilution : N/A
Reagent : 062422.02; 011320.02; 070822.R01; 063022.R02
Consumables : 294033242; n/a; 0030220
Pipette : E-GIL-010; E-EPP-081

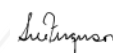
Full spectrum cannabinoid analysis utilizing High Performance Liquid Chromatography with UV/PDA detection (HPLC-UV/PDA). (Method: SOP.T.30.031.TN for sample prep and Shimadzu High Sensitivity Method SOP.T.40.020 for analysis.). *Based on FL action limits.

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Sue Ferguson

Lab Director

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



Signature

09/23/22

Signed On



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Wunderkind

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Sample Method : SOP Client Method

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Terpenes

TESTED


Terpenes	LOD (%)	mg/g	%	Result (%)	Terpenes	LOD (%)	mg/g	%	Result (%)
SABINENE HYDRATE	0.007	ND	ND		3-CARENE	0.007	ND	ND	
GERANIOL	0.007	ND	ND		FENCHYL ALCOHOL	0.007	ND	ND	
GERANYL ACETATE	0.007	ND	ND		HEXAHYDROTHYMOL	0.007	ND	ND	
GUAJOL	0.007	ND	ND		EUCALYPTOL	0.007	ND	ND	
LIMONENE	0.007	ND	ND		ISOBORNEOL	0.007	ND	ND	
LINALOOL	0.007	ND	ND		FARNESENE	0.007	ND	ND	
NEROL	0.007	ND	ND		FENCHONE	0.007	ND	ND	
OCIMENE	0.007	ND	ND						
ALPHA-PHELLANDRENE	0.007	ND	ND		Analyzed by:	Weight:	Extraction date:	Extracted by:	
PULEGONE	0.007	ND	ND		138, 12	1.0585g	09/21/22 12:04:29	138	
SABINENE	0.007	ND	ND		Analysis Method : SOP.T.40.090			Reviewed On : 09/22/22 15:34:33	
GAMMA-TERPINENE	0.007	ND	ND		Analytical Batch : KN002898TER			Batch Date : 09/14/22 14:05:44	
TERPINEOL	0.007	ND	ND		Instrument Used : E-SHI-109 Terpenes				
TERPINOLENE	0.007	ND	ND		Running on : N/A				
TRANS-CARYOPHYLLENE	0.007	ND	ND		Dilution : 10				
TRANS-NEROLIDOL	0.007	ND	ND		Reagent : N/A				
VALENCENE	0.007	ND	ND		Consumables : N/A				
ALPHA-BISABOLOL	0.007	ND	ND		Pipette : N/A				
ALPHA-HUMULENE	0.007	<0.2	<0.02		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				
ALPHA-PINENE	0.007	ND	ND						
ALPHA-TERPINENE	0.007	ND	ND						
BETA-MYRCENE	0.007	ND	ND						
BETA-PINENE	0.007	ND	ND						
BORNEOL	0.013	ND	ND						
CAMPHENE	0.007	ND	ND						
CAMPHOR	0.013	ND	ND						
CARYOPHYLLENE OXIDE	0.007	ND	ND						
CEDROL	0.007	ND	ND						
ALPHA-CEDRENE	0.007	ND	ND						
ISOPULEGOL	0.007	ND	ND						
CIS-NEROLIDOL	0.007	ND	ND						
Total (%)				0					

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Sue Ferguson

Lab Director

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Sample Method : SOP Client Method

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Pesticides

PASSED

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

Analyzed by: 2803, 12 Weight: 0.5034g Extraction date: 09/23/22 12:45:25 Extracted by: 2803
 Analysis Method : SOP.T.30.060, SOP.T.40.060
 Analytical Batch : KN002938PES Reviewed On : 09/23/22 19:03:10
 Instrument Used : E-SHI-125 Pesticides Batch Date : 09/23/22 12:39:13
 Running on : N/A
 Dilution : 0.01
 Reagent : N/A
 Consumables : N/A
 Pipette : N/A

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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Harvest/Lot ID: 0914WGAPPK112

Batch# : 0914WGAPPK112
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Ordered : 09/13/22

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Total Batch Size : N/A
Completed : 09/23/22 Expires: 09/23/23
Sample Method : SOP Client Method

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Residual Solvents

PASSED

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

Analyzed by: N/A	Weight: N/A	Extraction date: N/A	Extracted by: N/A
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Analysis Method : SOP.T.40.032
Analytical Batch : KN002917SOL
Instrument Used : E-SHI-106 Residual Solvents
Running on : N/A

Reviewed On : 09/21/22 18:52:22
Batch Date : 09/20/22 09:41:53

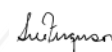
Dilution : N/A
Reagent : N/A
Consumables : R2017-167; G201.167
Pipette : N/A

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.

Sue Ferguson

Lab Director

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



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Sample Method : SOP Client Method

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Microbial						Mycotoxins					
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	0.002	ppm	ND	PASS	0.02
SALMONELLA SPECIFIC GENE			Not Present	PASS		AFLATOXIN G1	0.002	ppm	ND	PASS	0.02
ASPERGILLUS FLAVUS			Not Present	PASS		AFLATOXIN B2	0.002	ppm	ND	PASS	0.02
ASPERGILLUS FUMIGATUS			Not Present	PASS		AFLATOXIN B1	0.002	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: 1.0623g	Extraction date: 09/20/22 15:25:59		Extracted by: 2805		Analized by: 2803	Weight: 0.5034g	Extraction date: 09/23/22 12:45:25		Extracted by: 2803	
Analysis Method : SOP.T.40.043 Analytical Batch : KN002916MIC Instrument Used : Micro E-HEW-069 Running on : N/A Dilution : N/A Reagent : N/A Consumables : N/A Pipette : N/A						Analysis Method : SOP.T.30.060, SOP.T.40.060 Analytical Batch : KN002939MYC Instrument Used : E-SHI-125 Mycotoxins Running on : N/A Dilution : 0.01 Reagent : N/A Consumables : N/A Pipette : N/A					
Reviewed On : 09/22/22 11:56:59 Batch Date : 09/20/22 09:33:40						Reviewed On : 09/23/22 15:41:12 Batch Date : 09/23/22 12:54:31					

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.

Heavy Metals					
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
Analized by: 138, 12	Weight: 0.2863g	Extraction date: 09/23/22 09:46:18		Extracted by: 138	
Analysis Method : SOP.T.40.050, SOP.T.30.052 Analytical Batch : KN002922HEA Instrument Used : Metals ICP/MS Running on : N/A Dilution : 50 Reagent : N/A Consumables : N/A Pipette : N/A					
Reviewed On : 09/23/22 13:25:24 Batch Date : 09/20/22 14:31:48					

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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Page 6 of 6

	Filth/Foreign Material	PASSED
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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: 0.5248g	Extraction date: 09/20/22 15:29:16	Extracted by: 2805
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Analysis Method : SOP.T.30.074, SOP.T.40.074
Analytical Batch : KN002890FIL
Instrument Used : E-AMS-138 Microscope
Running on : N/A

Reviewed On : 09/20/22 15:30:43
Batch Date : 09/13/22 17:26:55

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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