



Certificate of Analysis

Sample:KN10927005-002
Harvest/Lot ID: J15X02
Seed to Sale# N/A
Batch Date: 09/15/21
Batch#: BMR0047/GRW0025
Sample Size Received: 34.8 gram
Total Weight/Volume: N/A
Retail Product Size: 34.8 gram
Ordered : 09/27/21
sampled : 09/27/21
Completed: 10/01/21 Expires: 10/01/22
Sampling Method: SOP Client Method

Oct 01, 2021 | Green Roads

5150 SW 48TH WAY
Davie, FL, 33314, US



PASSED
Page 1 of 5

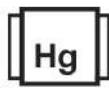
PRODUCT IMAGE



SAFETY RESULTS



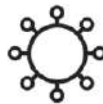
Pesticides
PASSED



Heavy Metals
PASSED



Microbials
PASSED



Mycotoxins
PASSED



Residuals
Solvents
PASSED



Filtration
PASSED



Water Activity
NOT TESTED



Moisture
NOT TESTED



Terpenes
TESTED

MISC.

CANNABINOID RESULTS



Total THC
0.000%

TOTAL THC/Container :0 mg



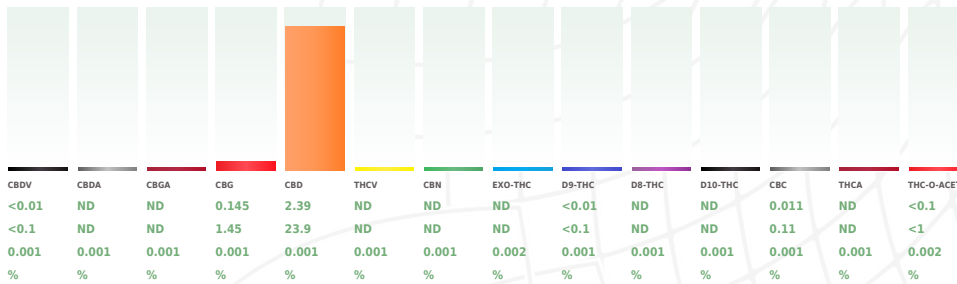
Total CBD
2.39%

TOTAL CBD/Container :831.859 mg



Total Cannabinoids
2.546%

Total Cannabinoids/Container
:886.217 mg



Filtration PASSED

Analyzed By	Weight	Extraction date	Extracted By	NA
142	2.4577g	NA		NA
Analyte			LOD	Result
Filtration and Foreign Material			0.3	ND
Analysis Method -SOP.T.40.013		Batch Date : 09/27/21 15:53:25		
Analytical Batch -KN001364FIL		Reviewed On - 09/27/21 16:22:40		
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 used for inspection.

Cannabinoid Profile Test

Analyzed by	Weight	Extraction date :	Extracted By :
113	0.2067g	09/27/21 01:09:19	113
Analysis Method -Expanded Measurement of Uncertainty: Flower Matrix d9-THC:12.7%, THCA: 9.5%, TOTAL THC 1.1, 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 -KN001361POT		Instrument Used : HPLC E-SH-008	Running On :
Reviewed On -		09/28/21 09:07:55	Batch Date : 09/27/21 09:21:54

Reagent	Dilution	Consums. ID
081321.R04	0.16	94789291.217
093021.R01		12123-046CC-046
090321.R05		

Full spectrum cannabinoid analysis utilizing High Performance Liquid Chromatography with UV detection (HPLC-UV). (Method: SOP.T.30.050 for sample prep and Shimadzu High Sensitivity Method SOP.T.40.020 for analysis.). *Based on FL action limits.

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Harvest/LOT ID: J15X02

Batch# : BMR0047/GRW0025
Sampled : 09/27/21
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Sample Size Received : 34.8 gram
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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 (%)
PULEGONE	0.007	ND	ND		CIS-NEROLIDOL	0.007	ND	ND	
GAMMA-TERPINENE	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		HEXAHYDRO THYMOL	0.007	ND	ND	
GUAIOL	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						
OCIMENE	0.007	ND	ND						
ALPHA-PHELLANDRENE	0.007	ND	ND						
FENCHONE	0.007	ND	ND						
SABINENE	0.007	ND	ND						
SABINENE HYDRATE	0.007	ND	ND						
TERPINEOL	0.007	ND	ND						
TERPINOLENE	0.007	ND	ND						
TRANS-CARYOPHYLLENE	0.007	ND	ND						
TRANS-NEROLIDOL	0.007	ND	ND						
VALENCENE	0.007	ND	ND						
CEDROL	0.007	ND	ND						
ALPHA-HUMULENE	0.007	ND	ND						
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						
ALPHA-CEDRENE	0.007	ND	ND						
ALPHA-BISABOLOL	0.007	0.3	0.03						
ISOPULEGOL	0.007	ND	ND						
Total (%)		0.03							

Terpenes TESTED

Analyzed by 138	Weight 1.02397g	Extraction date 09/29/21 03:09:21	Extracted By 138
Analysis Method -SOP.T.40.090		Reviewed On - 09/30/21 17:04:58	
Analytical Batch -KN001368TER		Instrument Used : E-SHI-109 Terpenes	
Running On :			
Batch Date : 09/28/21 10:26:16			

Reagent	Dilution	Consums. ID
042721.01	0	P7473901 201230 94789291.217 280083251

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

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Email: LAURA@GREENROADSWORLD.COM

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Harvest/LOT ID: J15X02

Batch# : BMR0047/GRW0025
Sampled : 09/27/21
Ordered : 09/27/21

Sample Size Received : 34.8 gram
Total Weight/Volume : N/A
Completed : 10/01/21 Expires: 10/01/22
Sample Method : SOP Client Method


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Pesticides

PASSED

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



Pesticides

PASSED

Analyzed by 143	Weight 1.0284g	Extraction date 09/28/21 04:09:58	Extracted By 143
Analysis Method - SOP.T.30.060, SOP.T.40.060 , Analytical Batch - KN001365PES		Reviewed On - 09/27/21 16:22:40	
Instrument Used : E-SHI-125 Pesticides Running On : 09/28/21 16:23:18		Batch Date : 09/28/21 10:01:16	

Reagent 091721.815 051021.02 080321.805 092321.806 092321.807	Dilution 100	Consums. ID 200618634 947.271
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Pesticide screen is performed using LC-MS which can screen down to below single digit ppb concentrations for regulated Pesticides. Currently we analyze for 57 Pesticides. (Method: SOP.T.30.060 Sample Preparation for Pesticides Analysis via LCMSMS and SOP.T40.060 Procedure for Pesticide Quantification Using LCMS). Analytes ISO pending. *Based on FL action limits. *

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Sample : KN10927005-002
Harvest/LOT ID: J15X02

Batch# : BMR0047/GRW0025
Sampled : 09/27/21
Ordered : 09/27/21

Sample Size Received : 34.8 gram
Total Weight/Volume : N/A
Completed : 10/01/21 Expires: 10/01/22
Sample Method : SOP Client Method

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Residual Solvents

PASSED



Residual Solvents

PASSED

Solvent	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	3525.382
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 - 15 DIMETHYLBENZENE		ppm	2170	PASS	ND

Analyzed by 138 **Weight** 0.02863g **Extraction date** 09/28/21 01:09:56 **Extracted By** 138
Analysis Method -SOP.T.40.032
Analytical Batch -KN001367SOL **Reviewed On - 09/30/21 16:58:05**
Instrument Used : E-SHI-106 Residual Solvents
Running On : 09/28/21 16:48:35
Batch Date : 09/28/21 10:14:06

Reagent	Dilution	Consums. ID
	0	R2017.062 G201-062

Residual solvents screening 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). Analytes ISO pending. *Based on FL action limits.

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Harvest/LOT ID: J15X02

Batch# : BMR0047/GRW0025
Sampled : 09/27/21
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Sample Size Received : 34.8 gram
Total Weight/Volume : N/A
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Sample Method : SOP Client Method

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Microbials PASSED



Mycotoxins PASSED

Analyte	LOD	Result
LISTERIA_MONOCYTOGENE		not present in 1 gram.
ESCHERICHIA_COLI_SHIGELLA_SPP		not present in 1 gram.
SALMONELLA_SPECIFIC_GENE		not present in 1 gram.
ASPERGILLUS_FLAVUS		not present in 1 gram.
ASPERGILLUS_FUMIGATUS		not present in 1 gram.
ASPERGILLUS_NIGER		not present in 1 gram.
ASPERGILLUS_TERREUS		not present in 1 gram.
TOTAL YEAST AND MOLD	10	<10 CFU

Analysis Method -SOP.T.40.043
Analytical Batch -KN001362MIC , KN001363TYM Batch Date : 09/27/21 12:38:45,
09/27/21 12:48:38
Instrument Used : Micro E-HEW-069,
Running On : 09/29/21 14:29:29, 09/27/21 13:54:20

Analyzed by	Weight	Extraction date	Extracted By
142, 142	1.0255g	NA	NA,

Reagent	Dilution	Consums. ID
072821.02	0	003102
072721.06		
030421.02		
072721.07		
030421.03		

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.

Analyte	LOD	Units	Result	Action Level
AFLATOXIN G2	0.002	ppm	ND	0.02
AFLATOXIN G1	0.002	ppm	ND	0.02
AFLATOXIN B2	0.002	ppm	ND	0.02
AFLATOXIN B1	0.002	ppm	ND	0.02
OCHRATOXIN A+	0.002	ppm	ND	0.02
TOTAL MYCOTOXINS	0.002	ppm	ND	

Analysis Method -SOP.T.30.060, SOP.T.40.060
Analytical Batch -KN001366MYC | Reviewed On - 09/30/21 17:19:57
Instrument Used : E-SHI-125 Mycotoxins
Running On : 09/28/21 16:27:08
Batch Date : 09/28/21 10:03:11

Analyzed by	Weight	Extraction date	Extracted By
143	1.0284g	09/28/21 04:09:39	143

Aflatoxins B1, B2, G1, G2, and Ochratoxins A testing using LC-MS. (Method: SOP.T.30.060 for Sample Preparation and SOP.T40.060 Procedure for Mycotoxins Quantification Using LCMS. LOQ 1.0 ppb). Total Aflatoxins (Aflatoxin B1, B2, G1, G2) must be <20µg/Kg. Ochratoxins must be <20µg/Kg. Analytes ISO pending. *Based on FL action limits.



Heavy Metals PASSED

Reagent	Dilution	Consums. ID
092121.R21	50	7226/0030021
092121.R22		210117060
080421.R13		A29564150
040521.R04		

Metal	LOD	Unit	Result	Action Level
ARSENIC-AS	0.02	ppm	ND	1.5
CADMIUM-CD	0.02	ppm	ND	0.5
MERCURY-HG	0.02	ppm	ND	3
LEAD-PB	0.02	ppm	ND	0.5

Analyzed by	Weight	Extraction date	Extracted By
12	0.2632g	09/29/21 12:09:27	12

Analysis Method -SOP.T.40.050, SOP.T.30.052
Analytical Batch -KN001372HEA | Reviewed On - 09/29/21 12:21:07
Instrument Used : Metals ICP/MS
Running On :
Batch Date : 09/28/21 15:19:12

Heavy Metals screening is performed using ICP-MS (Inductively Coupled Plasma - Mass Spectrometer) which can screen down to below single digit ppb concentrations for regulated heavy metals using Method SOP.T.30.052 Sample Preparation for Heavy Metals Analysis via ICP-MS and SOP.T.40.050 Heavy Metals Analysis via ICP-MS. Analytes ISO Pending. *Based on FL action limits.

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