



# Certificate of Analysis

**Sample:KN20524011-001**
**Harvest/Lot ID: E18Y01**
**Batch#: BMR0060/GRW0038**
**Seed to Sale# N/A**
**Batch Date: 05/18/22**
**Sample Size Received: 34.8 gram**
**Total Weight/Volume: N/A**
**Retail Product Size: 34.8 gram**
**ordered : 05/20/22**
**sampled : 05/20/22**
**Completed: 06/03/22**
**Sampling Method: SOP Client Method**
**PASSED**

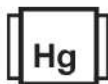
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Jun 03, 2022 | Green Roads

5150 SW 48TH WAY  
Davie, FL, 33314, 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**
**0.0291%**
**Total THC/Bottle : 10.127 mg**

**Total CBD**
**3.9718%**
**Total CBD/Bottle : 1382.186 mg**

**Total Cannabinoids**
**4.0782%**
**Total Cannabinoids/Bottle : 1419.214 mg**

	TOTAL CANNABINOID	CBDV	CBD	CBDA	CBGA	CBG	CBD	THCV	CBN	EXO-THC	D9-THC	D8-THC	D10-THC	CBC	THCA	D8-THCO	D9-THCO	THC-O
%	4.0782	0.0177	<0.01	ND	0.0196	3.9718	<0.01	<0.01	ND	0.0291	ND	ND	ND	0.04	<0.01	ND	ND	ND
mg/g	40.782	0.177	<0.1	ND	0.196	39.718	<0.1	<0.1	ND	0.291	ND	ND	ND	0.4	<0.1	ND	ND	ND
LOD	0.001	0.001	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
%	0.001	0.001	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** 113      **Weight** 0.206g      **Extraction date :** 05/26/22 15:40:49      **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** - 05/27/22 12:11:42

**Analytical Batch** - KN002459POT

**Batch Date** : 05/26/22 08:46:47

**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.



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Green Roads

 5150 SW 48TH WAY  
 Davie, FL, 33314, US  
 Telephone: (844) 747-3367  
 Email: LAURA@GREENROADSWORLD.COM

 Sample : KN20524011-001  
 Harvest/Lot ID: E18Y01

 Batch# : BMR0060/GRW0038  
 Sampled : 05/20/22  
 Ordered : 05/20/22

 Sample Size Received : 34.8 gram  
 Total Weight/Volume : N/A  
 Completed : 06/03/22 Expires: 06/03/23  
 Sample Method : SOP Client Method

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## Terpenes

**TESTED**

Terpenes	LOD (%)	mg/g	%	Result (%)
TRANS-CARYOPHYLLENE	0.007	ND	ND	
GUAIOL	0.007	ND	ND	
LIMONENE	0.007	ND	ND	
LINALOOL	0.007	ND	ND	
NEROL	0.007	ND	ND	
OCIMENE	0.007	ND	ND	
ALPHA-PHELLANDRENE	0.007	ND	ND	
PULEGONE	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	
GERANYL ACETATE	0.007	ND	ND	
TRANS-NEROLIDOL	0.007	ND	ND	
VALENCENE	0.007	ND	ND	
ISOPULEGOL	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	
CEDROL	0.007	ND	ND	
ALPHA-BISABOLOL	0.007	0.2991	0.0299	
ALPHA-CEDRENE	0.007	ND	ND	
CIS-NEROLIDOL	0.007	ND	ND	
3-CARENE	0.007	ND	ND	
FENCHYL ALCOHOL	0.007	ND	ND	

Terpenes	LOD (%)	mg/g	%	Result (%)
HEXAHYDROTHYMOL	0.007	ND	ND	
EUCALYPTOL	0.007	ND	ND	
ISOBORNEOL	0.007	ND	ND	
FARNESENE	0.007	ND	ND	
FENCHONE	0.007	ND	ND	
GAMMA-TERPINENE	0.007	ND	ND	
GERANIOL	0.007	ND	ND	



## Terpenes

**TESTED**

Analyzed by: 138, 12  
 Weight: 1.0581g  
 Extraction date: 06/01/22 17:58:31  
 Analysis Method - SOP.T.40.090  
 Analytical Batch - KN002488TER  
 Instrument Used : E-SHI-109 Terpenes  
 Running On :  
 Batch Date : 06/01/22 15:39:15

Reviewed On - 06/02/22 23:49:49

Dilution : 1  
 Reagent :  
 Consumables :  
 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

Total (%)

0.0299

**Sue Ferguson**

Lab Director

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

  
 Signature

06/03/22

Signed On



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 5150 SW 48TH WAY  
 Davie, FL, 33314, US  
 Telephone: (844) 747-3367  
 Email: LAURA@GREENROADSWORLD.COM

 Sample : KN20524011-001  
 Harvest/Lot ID: E18Y01

 Batch# : BMR0060/GRW0038  
 Sample Size Received : 34.8 gram  
 Total Weight/Volume : N/A  
 Sampled : 05/20/22  
 Completed : 06/03/22 Expires: 06/03/23  
 Ordered : 05/20/22  
 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
CLOFENTHIZINE	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						



## Pesticides

**PASSED**

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 20:20:10

Batch Date :06/01/22 19:43:33

 Analyzed by:  
12

 Weight:  
31g

 Extraction date:  
NA

 Extracted by:  
NA

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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 5150 SW 48TH WAY  
 Davie, FL, 33314, US  
 Telephone: (844) 747-3367  
 Email: LAURA@GREENROADSWORLD.COM

 Sample : KN20524011-001  
 Harvest/Lot ID: E18Y01

 Batch# : BMR0060/GRW0038  
 Sampled : 05/20/22  
 Ordered : 05/20/22

 Sample Size Received : 34.8 gram  
 Total Weight/Volume : N/A  
 Completed : 06/03/22 Expires: 06/03/23  
 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	959.3666
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



## Solvents

**PASSED**

Analyzed by 138, 12	Weight 0.0243g	Extraction date 05/31/22 11:06:30	Extracted By 138
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Analysis Method -SOP.T.40.032

Analytical Batch -KN002471SOL

Instrument Used : E-SHI-106 Residual Solvents

Running On :

Batch Date : 05/27/22 10:30:47

Reviewed On - 06/01/22 20:55:35

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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**PASSED**
**Green Roads**

 5150 SW 48TH WAY  
 Davie, FL, 33314, US  
 Telephone: (844) 747-3367  
 Email: LAURA@GREENROADSWORLD.COM

 Sample : KN20524011-001  
 Harvest/Lot ID: E18Y01

 Batch# : BMR0060/GRW0038  
 Sampled : 05/20/22  
 Ordered : 05/20/22

 Sample Size Received : 34.8 gram  
 Total Weight/Volume : N/A  
 Completed : 06/03/22 Expires: 06/03/23  
 Sample Method : SOP Client Method

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	<b>Microbial</b>	<b>PASSED</b>
		

Analyte	LOD	Units	Result	Pass / Fail	Action Level
LISTERIA MONOCYTOGENE	2000	RFU	ND	PASS	2000
ESCHERICHIA COLI SHIGELLA SPP	1726	RFU	ND	PASS	1726
SALMONELLA SPECIFIC GENE	10000	RFU	ND	PASS	10000
ASPERGILLUS FLAVUS	10000	RFU	ND	PASS	10000
ASPERGILLUS FUMIGATUS	10000	RFU	ND	PASS	10000
ASPERGILLUS NIGER	10000	RFU	ND	PASS	10000
ASPERGILLUS TERREUS	10000	RFU	ND	PASS	10000
TOTAL YEAST AND MOLD	10	CFU	<10	PASS	100000

 Analysis Method - SOP.T.40.043  
 Analytical Batch - KN002448MIC  
 Instrument Used : Micro E-HEW-069  
 Running on : 05/25/22 12:18:49

 Reviewed On : 05/26/22 15:26:46  
 Batch Date : 05/24/22 10:25:55

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

 Dilution : 1  
 Reagent : 042222.01; 031022.01; 122021.03  
 Consumables : 190215119C

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.

 Analysis Method - SOP.T.40.043  
 Analytical Batch - KN002441TYM  
 Instrument Used : E-HEW-069  
 Running on :  
 Reviewed On : 05/27/22 08:05:27  
 Batch Date : 05/23/22 09:57:13

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

 Dilution : 1  
 Reagent : 030121.01  
 Consumables :

Total yeast and mold testing is performed utilizing MPN and traditional culture based techniques in accordance with F.S. Rule 64ER20-39.

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

Analysis Method -SOP.T.30.060, SOP.T.40.060

Analytical Batch -KN002489MYC | Reviewed On - 06/01/22 17:26:38

Instrument Used : E-SHI-125 Mycotoxins

Running On : | Batch Date : 06/01/22 17:04:27

Analyzed by 12 Weight 31g Extraction date NA Extracted By 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.

## 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	ND	PASS	0.5

Analyzed by 138, 12 Weight 0.2782g Extraction date 05/27/22 15:53:44 Extracted By 12

Analysis Method -SOP.T.40.050, SOP.T.30.052

Analytical Batch -KN002462HEA | Reviewed On - 05/27/22 17:24:41

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.



10427 Cogdill Road, Suite 500  
Knoxville, TN, 37932, US  
DEA Number: RK0595249

Kaycha Labs

FULL SPECTRUM CBD OIL 1500 MG

N/A

Matrix : Edible



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Sample Method : SOP Client Method

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**Filth/Foreign  
Material**

**PASSED**

Analyte	LOD	Units	Result	P/F	Action Level
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Filth and Foreign Material	1	detect/g	ND	PASS	3
Analyzed By	Weight	Extraction date	Extracted By		
1692	0.5186g	05/24/22	1692		

Analysis Method -SOP.T.40.013 Batch Date : 05/24/22 10:31:07

Analytical Batch -KN002449FIL Reviewed On - 05/24/22 14:36:51

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.

This report shall not be reproduced, unless in its entirety, without written approval from Kaycha Labs. This report is an Kaycha Labs certification. The results relate only to the material or product analyzed. Test results are confidential unless explicitly waived otherwise. Void after 1 year from test end date. Cannabinoid content of batch material may vary depending on sampling error. IC=In-control QC parameter, NC=Non-controlled QC parameter, ND=Not Detected, NA=Not Analyzed, ppm=Parts Per Million, ppb=Parts Per Billion. Limit of Detection (LoD) and Limit Of Quantitation (LoQ) are terms used to describe the smallest concentration that can be reliably measured by an analytical procedure. RPD=Reproducibility of two measurements. Action Levels are State determined thresholds for human safety for consumption and/or inhalation. The result >99% are variable based on uncertainty of measurement (UM) for the analyte. The UM error is available from the lab upon request. The "Decision Rule" for the pass/fail does not include the UM. The limits are based on F.S. Rule 64-4.310.

**Sue Ferguson**

Lab Director

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

Signature

06/03/22

Signed On