kaycha LABS

4131 SW 47th AVENUE SUITE 1408

**Kaycha Labs**

GRW 50 MG ISO MUSCLE & JOINT OTG CREAM
N/A
Matrix: Derivative

# Certificate of Analysis

**Sample:DA00402005-002**
**Harvest/Lot ID: C10W03**
**Seed to Sale #**N/A
**Batch Date :**N/A
**Batch#:** BMR0025
**Sample Size Received:** 10.1 gram
**Retail Product Size:** 10.1
**Ordered** : 03/31/20
**Sampled** : 03/31/20
**Completed:** 04/06/20 Expires: 04/06/21
**Sampling Method:** SOP Client Method

## Apr 06, 2020 | Green Roads

601 Fairway Drive Deerfield Beach
Florida, United States 33441

GREEN ROADS™

**PASSED**



**PRODUCT IMAGE**

**SAFETY RESULTS**

| Pesticides | Heavy Metals | Microbials | Mycotoxins | Residuals Solvents | Filth | Water Activity | Moisture |
|---|---|---|---|---|---|---|---|
| PASSED | PASSED | PASSED | PASSED | PASSED | PASSED | NOT TESTED | NOT TESTED |

**MISC.**

Terpenes
**TESTED**

## CANNABINOID RESULTS

**Total THC**
**0.000%**
**THC/Container :0.000 mg**

**Total CBD**
**0.434%**
**CBD/Container :43.834 mg**

**Total Cannabinoids**
**0.434%**
**Total Cannabinoids/Container :43.834 mg**

| | CBC | CBGA | CBG | THCV | D8-THC | CBDV | CBN | CBDA | CBD | D9-THC | THCA |
|---|---|---|---|---|---|---|---|---|---|---|---|
| | ND | ND | ND | ND | ND | ND | ND | ND | 0.434% | ND | ND |
| | ND | ND | ND | ND | ND | ND | ND | ND | 4.340 mg/g | ND | ND |
| LOD | 0.001 % | 0.001 % | 0.001 % | 0.001 % | 0.001 % | 0.001 % | 0.001 % | 0.001 % | 0.0001 % | 0.0001 % | 0.001 % |

### Filth PASSED

| Analyzed By | Weight | Extraction date | LOD(ppm) | Extracted By |
|---|---|---|---|---|
| 584 | 1g | 04/03/20 | | 584 |

**Analysis Method -**SOP.T.40.013 **Batch Date :** 04/03/20 09:39:21
**Analytical Batch -**DA011421FIL **Reviewed On -** 04/03/20 09:42:16
**Instrument Used :** Filth/Foreign Material Microscope

This includes but is not limited to hair, insects, feces, packaging contaminants, and manufacturing waste and by-products. An SH-2B/T Stereo Microscope is use for inspection.

### Cannabinoid Profile Test

| Analyzed by | Weight | Extraction date : | Extracted By : |
|---|---|---|---|
| 450 | 3.0200g | 04/02/20 10:04:42 | 965 |

**Analysis Method -**SOP.T.40.020, SOP.T.30.050 **Reviewed On -** 04/03/20 11:58:25
**Analytical Batch -**DA011378POT **Instrument Used :** DA-LC-003 **Batch Date :** 04/02/20 08:36:06

| Reagent | Dilution | Consums. ID |
|---|---|---|
| 032320.11 | 40 | 180111 |
| 033120.R19 | | 914C4-914AK |
| 033120.R18 | | 929C6-929H |

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. LOQ for all cannabinoids is 1 mg/L).



**Jorge Segredo**
Lab Director

State License # n/a
ISO Accreditation # 97164

Signature

04/06/2020
Signed On

kaycha LABS
4131 SW 47th AVENUE SUITE 1408

Kaycha Labs
GRW 50 MG ISO MUSCLE & JOINT OTG CREAM
N/A
Matrix : Derivative

# Certificate of Analysis

PASSED

**Green Roads**

601 Fairway Drive Deerfield Beach
Florida, United States 33441
**Telephone:** (954) 609-5537
**Email:** ashley@greenroads.com

**Sample : DA00402005-002**
**Harvest/LOT ID: C10W03**
**Batch# :** BMR0025 **Sample Size Received :** 10.1 gram
**Sampled :** 03/31/20 **Completed :** 04/06/20 **Expires:** 04/06/21
**Ordered :** 03/31/20 **Sample Method :** SOP Client Method



## Terpenes

TESTED

| Terpenes | LOD | Units | Result (%) |
|---|---|---|---|
| ALPHA-CEDRENE | 0.007 | % | ND |
| ALPHA-HUMULENE | 0.007 | % | ND |
| ALPHA-PINENE | 0.007 | % | ND |
| ALPHA-TERPINENE | 0.007 | % | ND |
| BETA-MYRCENE | 0.007 | % | ND |
| BETA-PINENE | 0.007 | % | ND |
| BORNEOL | 0.013 | % | ND |
| CAMPHENE | 0.007 | % | ND |
| CAMPHOR | 0.013 | % | 0.104 |
| CARYOPHYLLENE OXIDE | 0.007 | % | ND |
| CEDROL | 0.007 | % | ND |
| ALPHA-BISABOLOL | 0.007 | % | ND |
| SABINENE | 0.007 | % | ND |
| SABINENE HYDRATE | 0.007 | % | ND |
| TERPINEOL | 0.007 | % | ND |
| TERPINOLENE | 0.007 | % | ND |
| BETA-CARYOPHYLLENE | 0.007 | % | 0.034 |
| TRANS-NEROLIDOL | 0.007 | % | ND |
| VALENCENE | 0.007 | % | ND |
| PULEGONE | 0.007 | % | ND |
| ALPHA-PHELLANDRENE | 0.007 | % | ND |
| OCIMENE | 0.007 | % | ND |
| NEROL | 0.007 | % | ND |
| LINALOOL | 0.007 | % | 0.408 |
| LIMONENE | 0.007 | % | ND |
| GUAIOL | 0.007 | % | ND |
| GERANYL ACETATE | 0.007 | % | ND |
| GERANIOL | 0.007 | % | ND |
| GAMMA-TERPINENE | 0.007 | % | ND |
| FENCHONE | 0.007 | % | ND |
| FARNESENE | 0.007 | % | 0.025 |
| EUCALYPTOL | 0.007 | % | 0.077 |
| ISOBORNEOL | 0.007 | % | ND |
| HEXAHYDROTHYMOL | 0.007 | % | 0.112 |
| FENCHYL ALCOHOL | 0.007 | % | ND |
| 3-CARENE | 0.007 | % | ND |
| CIS-NEROLIDOL | 0.007 | % | ND |
| ISOPULEGOL | 0.007 | % | ND |

**Total** 0.763

## Terpenes

TESTED

| Analyzed by | Weight | Extraction date | Extracted By |
|---|---|---|---|
| 1351 | 0.9414g | 04/02/20 09:04:42 | 1351 |

**Analysis Method -** SOP.T.40.090
**Analytical Batch -** DA011371TER **Reviewed On -** 04/03/20 12:05:48
**Instrument Used :** DA-GCMS-006
**Batch Date :** 04/02/20 08:19:08

| Reagent | Dilution | Consums. ID |
|---|---|---|
| 021420.11 | 10 | 180111 |
| 012120.R13 | | 280670723 |

Terpenoid profile screening is performed using GC-MS with Liquid Injection (Gas Chromatography – Mass Spectrometer) which can screen 38 terpenes using Method SOP.T.40.091 Terpenoid Analysis Via GC/MS.



**Jorge Segredo**
Lab Director
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ISO Accreditation # 97164

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**Kaycha Labs**
GRW 50 MG ISO MUSCLE & JOINT OTG CREAM
N/A
Matrix : Derivative

# Certificate of Analysis

**PASSED**

**Green Roads**

601 Fairway Drive Deerfield Beach
Florida, United States 33441
**Telephone:** (954) 609-5537
**Email:** ashley@greenroads.com

**Sample : DA00402005-002**
**Harvest/LOT ID: C10W03**
**Batch# :** BMR0025
**Sampled :** 03/31/20
**Ordered :** 03/31/20
**Sample Size Received :** 10.1 gram
**Completed :** 04/06/20 **Expires:** 04/06/21
**Sample Method :** SOP Client Method



## Pesticides

**PASSED**

| Pesticides | LOD | Units | Action Level | Result |
|---|---|---|---|---|
| ABAMECTIN B1A | 0.01 | ppm | 0.3 | ND |
| ACEPHATE | 0.01 | ppm | 3 | ND |
| ACEQUINOCYL | 0.01 | ppm | 2 | ND |
| ACETAMIPRID | 0.01 | ppm | 3 | ND |
| ALDICARB | 0.01 | ppm | 0.1 | ND |
| AZOXYSTROBIN | 0.01 | ppm | 3 | ND |
| BIFENAZATE | 0.01 | ppm | 3 | ND |
| BIFENTHRIN | 0.01 | ppm | 0.5 | ND |
| BOSCALID | 0.01 | PPM | 3 | ND |
| CAPTAN | 0.07 | ppm | 3 | ND |
| CARBARYL | 0.05 | ppm | 0.5 | ND |
| CARBOFURAN | 0.01 | ppm | 0.1 | ND |
| CHLORANTRANILIPROLE | 0.1 | ppm | 3 | ND |
| CHLORFENAPYR | 0.01 | ppm | 0.1 | ND |
| CHLORMEQUAT CHLORIDE | 0.05 | ppm | 3 | ND |
| CHLORPYRIFOS | 0.01 | ppm | 0.1 | ND |
| CLOFENTEZINE | 0.02 | ppm | 0.5 | ND |
| COUMAPHOS | 0.01 | ppm | 0.1 | ND |
| CYFLUTHRIN | 0.05 | ppm | 1 | ND |
| CYPERMETHRIN | 0.05 | 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 | 0.02 | 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 | 0.04 | ppm | 3 | ND |
| KRESOXIM-METHYL | 0.01 | ppm | 1 | ND |
| MALATHION | 0.02 | ppm | 2 | ND |
| METALAXYL | 0.01 | ppm | 3 | ND |
| METHIOCARB | 0.01 | ppm | 0.1 | ND |

| Pesticides | LOD | Units | Action Level | Result |
|---|---|---|---|---|
| METHOMYL | 0.01 | ppm | 0.1 | ND |
| METHYL PARATHION | 0.005 | ppm | 0.1 | ND |
| MEVINPHOS | 0.01 | ppm | 0.1 | ND |
| MYCLOBUTANIL | 0.01 | ppm | 3 | ND |
| NALED | 0.025 | ppm | 0.5 | ND |
| OXAMYL | 0.05 | ppm | 0.5 | ND |
| PACLOBUTRAZOL | 0.01 | ppm | 0.1 | ND |
| PHOSMET | 0.01 | ppm | 0.2 | ND |
| PIPERONYL BUTOXIDE | 0.1 | ppm | 3 | ND |
| PRALLETHRIN | 0.01 | ppm | 0.4 | ND |
| PROPICONAZOLE | 0.01 | ppm | 1 | ND |
| PROPOXUR | 0.01 | ppm | 0.1 | ND |
| PYRETHRINS | 0.05 | ppm | 1 | ND |
| PYRIDABEN | 0.02 | ppm | 3 | ND |
| SPINETORAM | 0.02 | PPM | 3 | ND |
| SPIROMESIFEN | 0.01 | ppm | 3 | ND |
| SPIROTETRAMAT | 0.01 | ppm | 3 | ND |
| SPIROXAMINE | 0.01 | ppm | 0.1 | ND |
| TEBUCONAZOLE | 0.01 | ppm | 1 | ND |
| THIACLOPRID | 0.01 | ppm | 0.1 | ND |
| THIAMETHOXAM | 0.05 | ppm | 1 | ND |
| TOTAL CONTAMINANT LOAD (PESTICIDES) | 0 | PPM | 20 | ND |
| TOTAL PERMETHRIN | 0.01 | ppm | 1 | ND |
| TOTAL SPINOSAD | 0.01 | ppm | 3 | ND |
| TRIFLOXYSTROBIN | 0.01 | ppm | 3 | ND |

### Pesticides — PASSED

| Analyzed by | Weight | Extraction date | Extracted By |
|---|---|---|---|
| 585 | 1.0182g | 04/02/20 11:04:31 | 1082 |

**Analysis Method -** SOP.T.30.065, SOP.T.40.065, SOP.T40.060, SOP.T.40.070 and SOP.T.40.090 , SOP.T.30.065, SOP.T.40.065, SOP.T40.060 and SOP.T.40.090
**Analytical Batch -** DA011383PES
**Reviewed On-** 04/03/20 09:42:16
**Instrument Used :** DA-LCMS-001_DER
**Batch Date :** 04/02/20 09:14:24

| Reagent | Dilution | Consums. ID |
|---|---|---|
| 012120.16<br>033120.R15<br>040220.R14 | 10 | 180111<br>280670723 |

Pesticide screen is performed using LC-MS which can screen down to below single digit ppb concentrations for regulated Pesticides. Currently we analyze for 67 Pesticides. (Method: SOP.T.30.060 Sample Preparation for Pesticides Analysis via LCMSMS and SOP.T40.060 Procedure for Pesticide Quantification Using LCMS). Volatile Pesticides may be tested with GCMSMS under SOP.T.40.070 and SOP.T.40.090. * Pesticide screen is performed using GC-MS which can screen down to below single digit ppb concentrations for regulated Pesticides. Currently we analyze for 2 Volatile Pesticides. (Method: SOP.T.30.060 Sample Preparation for Pesticides Analysis via LCMSMS and SOP.T.40.090 Volatile Pesticides Analysis by GC-MS/MS



**Jorge Segredo**
Lab Director
State License # n/a
ISO Accreditation # 97164

Signature

04/06/2020
Signed On

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**Kaycha Labs**

GRW 50 MG ISO MUSCLE & JOINT OTG CREAM
N/A
Matrix : Derivative

# Certificate of Analysis

**PASSED**

**Green Roads**

601 Fairway Drive Deerfield Beach
Florida, United States 33441
**Telephone:** (954) 609-5537
**Email:** ashley@greenroads.com

**Sample : DA00402005-002**
**Harvest/LOT ID: C10W03**
**Batch# :** BMR0025
**Sampled :** 03/31/20
**Ordered :** 03/31/20
**Sample Size Received :** 10.1 gram
**Completed :** 04/06/20 **Expires:** 04/06/21
**Sample Method :** SOP Client Method



## Residual Solvents — PASSED

| Solvent | LOD | Units | Action Level (PPM) | Pass/Fail | Result |
|---|---|---|---|---|---|
| 1,1-DICHLOROETHENE | 1 | ppm | 8 | PASS | ND |
| 1,2-DICHLOROETHANE | 0.18 | ppm | 2 | PASS | ND |
| 2-PROPANOL | 45 | ppm | 500 | PASS | ND |
| ACETONE | 67.5 | ppm | 750 | PASS | ND |
| ACETONITRILE | 5.4 | ppm | 60 | PASS | ND |
| BENZENE | 0.09 | ppm | 1 | PASS | ND |
| BUTANES (N-BUTANE) | 96 | ppm | 5000 | PASS | ND |
| CHLOROFORM | 0.18 | ppm | 2 | PASS | ND |
| DICHLOROMETHANE | 3.75 | ppm | 125 | PASS | ND |
| ETHANOL | 90 | ppm | | PASS | ND |
| ETHYL ACETATE | 36 | ppm | 400 | PASS | ND |
| ETHYL ETHER | 45 | ppm | 500 | PASS | ND |
| ETHYLENE OXIDE | 0.6 | ppm | 5 | PASS | ND |
| HEPTANE | 45 | ppm | 5000 | PASS | ND |
| METHANOL | 22.5 | ppm | 250 | PASS | ND |
| N-HEXANE | 4.5 | ppm | 250 | PASS | ND |
| PENTANES (N-PENTANE) | 67.5 | ppm | 750 | PASS | ND |
| PROPANE | 120 | ppm | 5000 | PASS | ND |
| TOLUENE | 13.5 | ppm | 150 | PASS | ND |
| TOTAL XYLENES | 13.5 | ppm | 150 | PASS | ND |
| TRICHLOROETHYLENE | 2.25 | ppm | 25 | PASS | ND |

## Residual Solvents — PASSED

| Analyzed by | Weight | Extraction date | Extracted By |
|---|---|---|---|
| 850 | .0206g | 04/06/20 09:04:01 | 850 |

**Analysis Method -SOP.T.40.032**
**Analytical Batch -DA011436SOL** **Reviewed On - 04/06/20 11:52:59**
**Instrument Used : Headspace GCMS**
**Batch Date : 04/03/20 14:21:20**

| Reagent | Dilution | Consums. ID |
|---|---|---|
| | 1 | 00279984<br>161291-1<br>24154107 |

Residual solvents screening is performed using GC-MS which can detect below single digit ppm concentrations. Currently we analyze for 21 Residual solvents.(Method: SOP.T.30.032 Residual Solvents Analysis via GC-MS).



**Jorge Segredo**
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ISO Accreditation # 97164

Signature

04/06/2020
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Kaycha Labs
GRW 50 MG ISO MUSCLE & JOINT OTG CREAM
N/A
Matrix : Derivative

# Certificate of Analysis

**PASSED**

**Green Roads**

601 Fairway Drive Deerfield Beach
Florida, United States 33441
**Telephone:** (954) 609-5537
**Email:** ashley@greenroads.com

**Sample : DA00402005-002**
**Harvest/LOT ID: C10W03**
**Batch# :** BMR0025
**Sampled :** 03/31/20
**Ordered :** 03/31/20
**Sample Size Received :** 10.1 gram
**Completed :** 04/06/20 **Expires:** 04/06/21
**Sample Method :** SOP Client Method



## Mycotoxins — PASSED

| Analyte | LOD | Units | Result | Action Level (PPM) |
|---|---|---|---|---|
| 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 |

**Analysis Method -**SOP.T.30.065, SOP.T.40.065
**Analytical Batch -**DA011384 | **Reviewed On -** 04/03/20 20:55:08
**Instrument Used :** DA-LCMS-001_DER
**Batch Date :** 04/02/20 09:16:12

| Analyzed by | Weight | Extraction date | Extracted By |
|---|---|---|---|
| 585 | 1g | 04/02/20 02:04:59 | 585 |

Aflatoxins B1, B2, G1, G2, and Ochratoxins A testing using LC-MS. (Method: SOP.T.30.065 for Sample Preparation and SOP.T40.065 Procedure for Mycotoxins Quantification Using LCMS. LOQ 1.0 ppb). Aflatoxin B1, B2, G1, and G2 must individually be <20ug/Kg. Ochratoxins must be <20µg/Kg.

## Microbials — PASSED

| Analyte | Result |
|---|---|
| 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. |
| ESCHERICHIA_COLI_SHIGELLA_SPP | not present in 1 gram. |
| SALMONELLA_SPECIFIC_GENE | not present in 1 gram. |
| STAPHYLOCOCCUS_AUREUS | not present in 1 gram. |
| TOTAL_YEAST_AND_MOLD | <100 |

**Analysis Method -**SOP.T.40.043
**Analytical Batch -**DA011388MIC | **Reviewed On -** 04/03/20 16:22:22
**Instrument Used :** PathogenDX PCR_Array Scanner
**Batch Date :** 04/02/20 09:53:41

| Analyzed by | Weight | Extraction date | Extracted By |
|---|---|---|---|
| 513 | 1.0540g | 04/02/20 10:04:26 | 1082 |

| Reagent | Dilution | Consums. ID |
|---|---|---|
| 101619.04 | | SG298A |
| 013120.94 | | 181207119C |
| 122719.32 | | 918C4-918J |
| 013120.112 | | 914C4-914AK |
| 022120.176 | | 929C6-929H |
| 121719.86 | | 19323 |
| 020420.358 | | 23819111 |
| 013120.409 | | 190611634 |
| 022120.221 | | 50AX26219 |
| 022120.277 | | |

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 — PASSED

| Reagent | Reagent | Dilution |
|---|---|---|
| 032420.R06 | 033020.R05 | 50 |
| 040120.R01 | 033120.R12 | |
| 033020.R02 | 111319.02 | |
| 033020.R03 | | |
| 033020.R06 | | |
| 033020.R07 | | |

| Metal | LOD | Unit | Result | Action Level (PPM) |
|---|---|---|---|---|
| ARSENIC | 0.02 | PPM | ND | 1.5 |
| CADMIUM | 0.02 | PPM | ND | 0.5 |
| LEAD | 0.05 | PPM | ND | |
| MERCURY | 0.02 | PPM | ND | 3 |

| Analyzed by | Weight | Extraction date | Extracted By |
|---|---|---|---|
| 53 | 0.2558g | 04/02/20 01:04:48 | 457 |

**Analysis Method -**SOP.T.40.050, SOP.T.30.052
**Analytical Batch -**DA011376HEA | **Reviewed On -** 04/03/20 15:10:21
**Instrument Used :** ICPMS-2030 B
**Batch Date :** 04/02/20 08:33:54

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.



**Jorge Segredo**
Lab Director
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ISO Accreditation # 97164

Signature

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