



Certificate of Analysis

QA SAMPLE - INFORMATIONAL ONLY

1 of 3

ICAL ID: 20220203-012
Sample: CA220203-013-040
Joysol Muscle Lotion
Strain: Joysol Muscle Lotion
Category: Topical

Herbal Brands Inc.
Lic. #
1430 W. Auto Dr.
Tempe, AZ 85284
Lic. #

Batch#: 215142
Batch Size Collected:
Total Batch Size:
Collected: 02/07/2022; Received: 02/07/2022
Completed: 02/07/2022

| | | | | |
|--|--------------|-----------------------|--------------------------------------|------------------------------|
| Moisture NT Water Activity NT | Δ9-THC ND | CBD 750.10 mg/unit | Total Cannabinoids 750.10 mg/unit | Total Terpenes 0.540 mg/g |
|--|--------------|-----------------------|--------------------------------------|------------------------------|

| Summary | SOP Used | Date Tested | |
|-------------------|--|-------------|----------|
| Batch | | | Pass |
| Cannabinoids | POT-PREP-005 | 02/03/2022 | Complete |
| Terpenes | TERP-PREP-001 | 02/03/2022 | Complete |
| Residual Solvents | RS-PREP-001 | 02/03/2022 | Pass |
| Microbials | MICRO-PREP-001 | 02/05/2022 | Pass |
| Mycotoxins | PESTMYCO-LC-PREP-001 | 02/03/2022 | Pass |
| Heavy Metals | HM-PREP-001 | 02/03/2022 | Pass |
| Foreign Matter | FM-PREP-001 | 02/03/2022 | Pass |
| Pesticides | PESTMYCO-LC-PREP-001 / PEST-GC-PREP-001 | 02/03/2022 | Pass |



Scan to see results

Cannabinoid Profile

1 Unit = container, 105.785 g.

| Analyte | LOQ (mg/g) | LOD (mg/g) | % | mg/g | mg/unit | Analyte | LOQ (mg/g) | LOD (mg/g) | % | mg/g | mg/unit |
|---------|------------|------------|-------|------|---------|------------------|------------|------------|-------------|-------------|---------------|
| THCa | 0.0481 | 0.0160 | ND | ND | ND | CBDV | 0.0414 | 0.0062 | ND | ND | ND |
| Δ9-THC | 0.0414 | 0.0122 | ND | ND | ND | CBN | 0.0414 | 0.0089 | ND | ND | ND |
| Δ8-THC | 0.0414 | 0.0066 | ND | ND | ND | CBGa | 0.0414 | 0.0100 | ND | ND | ND |
| THCV | 0.0414 | 0.0053 | ND | ND | ND | CBG | 0.0414 | 0.0056 | ND | ND | ND |
| CBDa | 0.0532 | 0.0177 | ND | ND | ND | CBC | 0.0425 | 0.0142 | ND | ND | ND |
| CBD | 0.0414 | 0.0055 | 0.709 | 7.09 | 750.10 | Total THC | | | ND | ND | ND |
| | | | | | | Total CBD | | | 0.71 | 7.09 | 750.10 |
| | | | | | | Total | | | 0.71 | 7.09 | 750.10 |

Total THC=THCa * 0.877 + Δ9-THC; Total CBD = CBDa * 0.877 + CBD. LOD= Limit of Detection, LOQ= Limit of Quantitation, ND= Not Detected, NR= Not Reported. Potency is reported on a dry weight basis. Instrumentation and analysis SOPs used: Cannabinoids:UHPLC-DAD(POT-INST-005),Moisture:Moisture Analyzer(MOISTURE-001),Water Activity:Water Activity Meter(WA-INST-002), Foreign Material:Microscope(FOREIGN-001). Density measured at 19-24 °C, Water Activity measured at 0-90% RH. All QA submitted by the client, All CA State Compliance sampled using SAMPL-SOP-001.

Terpene Profile

| Analyte | LOQ (mg/g) | LOD (mg/g) | % | mg/g | Analyte | LOQ (mg/g) | LOD (mg/g) | % | mg/g |
|---------------------|------------|------------|--------|-------|-----------------|------------|------------|---------------|--------------|
| β-Myrcene | 0.025 | 0.010 | 0.0170 | 0.170 | δ-3-Carene | 0.025 | 0.010 | ND | ND |
| δ-Limonene | 0.025 | 0.010 | 0.0160 | 0.160 | Eucalyptol | 0.025 | 0.010 | ND | ND |
| α-Pinene | 0.025 | 0.010 | 0.0090 | 0.090 | γ-Terpinene | 0.025 | 0.010 | ND | ND |
| β-Caryophyllene | 0.025 | 0.010 | 0.0070 | 0.070 | Geraniol | 0.025 | 0.010 | ND | ND |
| β-Pinene | 0.025 | 0.010 | 0.0050 | 0.050 | Linalool | 0.025 | 0.010 | ND | ND |
| α-Bisabolol | 0.025 | 0.010 | ND | ND | (-)-Guaiaol | 0.025 | 0.010 | ND | ND |
| α-Humulene | 0.025 | 0.010 | <LOQ | <LOQ | (-)-Isopulegol | 0.025 | 0.010 | ND | ND |
| α-Terpinene | 0.025 | 0.010 | ND | ND | p-Cymene | 0.025 | 0.010 | ND | ND |
| Camphene | 0.025 | 0.010 | ND | ND | Terpinolene | 0.025 | 0.010 | ND | ND |
| Caryophyllene Oxide | 0.025 | 0.010 | ND | ND | trans-Nerolidol | 0.025 | 0.010 | ND | ND |
| cis-Nerolidol | 0.025 | 0.010 | ND | ND | trans-Ocimene | 0.025 | 0.010 | ND | ND |
| cis-Ocimene | 0.025 | 0.010 | ND | ND | Total | | | 0.0540 | 0.540 |

NR= Not Reported (no analysis was performed), ND= Not Detected (the concentration is less than the Limit of Detection (LOD)). Analytical instrumentation used: HS-GC-MS; samples analyzed according to SOP TERP-INST-003.



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Lab Director, Managing Partner
02/07/2022

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This product has been tested by Infinite Chemical Analysis, LLC using valid testing methodologies and a quality system as required by state law. All LQC samples were performed and met the prescribed acceptance criteria in 16 CCR section 15730, pursuant to 16 CCR section 15726(e)(13). Values reported relate only to the product tested. Infinite Chemical Analysis, LLC makes no claims as to the efficacy, safety or other risks associated with any detected or non-detected levels of any compounds reported herein. This Certificate shall not be reproduced except in full, without the written approval of Infinite Chemical Analysis, LLC.



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Residual Solvent Analysis

| Category 1 | LOQ | LOD | Limit | Status | Category 2 | LOQ | LOD | Limit | Status | Category 2 | LOQ | LOD | Limit | Status | | | |
|---------------------|------|------|-------|--------|------------|---------------|------|-------|--------|------------|------|-------------|-------|--------|-----|------|------|
| | µg/g | µg/g | µg/g | µg/g | | µg/g | µg/g | µg/g | µg/g | | µg/g | µg/g | µg/g | µg/g | | | |
| 1,2-Dichloro-Ethane | ND | 1 | 0.5 | 1 | Pass | Acetone | ND | 300 | 200 | 5000 | Pass | n-Hexane | ND | 35 | 20 | 290 | Pass |
| Benzene | ND | 1 | 0.5 | 1 | Pass | Acetonitrile | ND | 150 | 100 | 410 | Pass | Isopropanol | ND | 300 | 200 | 5000 | Pass |
| Chloroform | ND | 1 | 0.5 | 1 | Pass | Butane | ND | 300 | 200 | 5000 | Pass | Methanol | ND | 300 | 200 | 3000 | Pass |
| Ethylene Oxide | ND | 1 | 0.5 | 1 | Pass | Ethanol | ND | 300 | 200 | 5000 | Pass | Pentane | ND | 300 | 200 | 5000 | Pass |
| Methylene-Chloride | ND | 1 | 0.5 | 1 | Pass | Ethyl-Acetate | ND | 300 | 200 | 5000 | Pass | Propane | ND | 300 | 200 | 5000 | Pass |
| Trichloroethene | ND | 1 | 0.5 | 1 | Pass | Ethyl-Ether | ND | 300 | 200 | 5000 | Pass | Toluene | ND | 150 | 100 | 890 | Pass |
| | | | | | | Heptane | ND | 300 | 200 | 5000 | Pass | Xylenes | ND | 150 | 100 | 2170 | Pass |

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Heavy Metal Screening

| | LOQ | LOD | Limit | Status | |
|---------|-------|-------|-------|--------|------|
| | µg/g | µg/g | µg/g | µg/g | |
| Arsenic | ND | 0.009 | 0.003 | 1.5 | Pass |
| Cadmium | ND | 0.002 | 0.001 | 0.5 | Pass |
| Lead | 0.007 | 0.004 | 0.001 | 0.5 | Pass |
| Mercury | ND | 0.014 | 0.005 | 3 | Pass |

NR= Not Reported (no analysis was performed), ND= Not Detected (the concentration is less than the Limit of Detection (LOD)). Analytical instrumentation used: ICP-MS; samples analyzed according to SOP HM-INST-003.

Microbiological Screening

| | Limit | Result | Status |
|-----------------------|-------|--------------|--------|
| | CFU/g | CFU/g | |
| Aspergillus flavus | | NR | NT |
| Aspergillus fumigatus | | NR | NT |
| Aspergillus niger | | NR | NT |
| Aspergillus terreus | | NR | NT |
| STEC | | Not Detected | Pass |
| Salmonella SPP | | Not Detected | Pass |

ND=Not Detected. Analytical instrumentation used:qPCR; samples analyzed according to SOP MICRO-INST-001.



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Chemical Residue Screening

| Category 1 | LOQ | LOD | Status | Mycotoxins | LOQ | LOD | Limit | Status | | |
|------------------|------|-------|--------|------------|------------------|-------|-------|--------|--------|------|
| | µg/g | µg/g | µg/g | | µg/kg | µg/kg | µg/kg | µg/kg | | |
| Aldicarb | ND | 0.030 | 0.010 | Pass | B1 | ND | 5.88 | 1.94 | Tested | |
| Carbofuran | ND | 0.030 | 0.004 | Pass | B2 | ND | 8.04 | 2.65 | Tested | |
| Chlordane | ND | 0.075 | 0.025 | Pass | G1 | ND | 11.85 | 3.91 | Tested | |
| Chlorfenapyr | ND | 0.075 | 0.025 | Pass | G2 | ND | 5 | 1.54 | Tested | |
| Chlorpyrifos | ND | 0.033 | 0.011 | Pass | Ochratoxin A | ND | 14.49 | 4.78 | 20 | Pass |
| Coumaphos | ND | 0.030 | 0.007 | Pass | Total Aflatoxins | ND | | 20 | Pass | |
| Daminozide | ND | 0.058 | 0.019 | Pass | | | | | | |
| Dichlorvos | ND | 0.051 | 0.017 | Pass | | | | | | |
| Dimethoate | ND | 0.030 | 0.009 | Pass | | | | | | |
| Ethoprophos | ND | 0.030 | 0.006 | Pass | | | | | | |
| Etofenprox | ND | 0.030 | 0.006 | Pass | | | | | | |
| Fenoxycarb | ND | 0.034 | 0.011 | Pass | | | | | | |
| Fipronil | ND | 0.030 | 0.006 | Pass | | | | | | |
| Imazalil | ND | 0.030 | 0.009 | Pass | | | | | | |
| Methiocarb | ND | 0.030 | 0.010 | Pass | | | | | | |
| Mevinphos | ND | 0.040 | 0.013 | Pass | | | | | | |
| Paclbutrazol | ND | 0.034 | 0.011 | Pass | | | | | | |
| Parathion Methyl | ND | 0.024 | 0.008 | Pass | | | | | | |
| Propoxur | ND | 0.030 | 0.007 | Pass | | | | | | |
| Spiroxamine | ND | 0.030 | 0.004 | Pass | | | | | | |
| Thiacloprid | ND | 0.030 | 0.003 | Pass | | | | | | |

| Category 2 | LOQ | LOD | Limit | Status | Category 2 | LOQ | LOD | Limit | Status | | |
|---------------------|------|-------|-------|--------|------------|-------------------------|------|-------|--------|-----|------|
| | µg/g | µg/g | µg/g | µg/g | | µg/g | µg/g | µg/g | µg/g | | |
| Abamectin | ND | 0.044 | 0.014 | 0.3 | Pass | Kresoxim Methyl | ND | 0.030 | 0.010 | 1 | Pass |
| Acephate | ND | 0.030 | 0.006 | 5 | Pass | Malathion | ND | 0.030 | 0.007 | 5 | Pass |
| Acequinocyl | ND | 0.085 | 0.028 | 4 | Pass | Metalaxyl | ND | 0.030 | 0.005 | 15 | Pass |
| Acetamiprid | ND | 0.030 | 0.007 | 5 | Pass | Methomyl | ND | 0.032 | 0.010 | 0.1 | Pass |
| Azoxystrobin | ND | 0.030 | 0.004 | 40 | Pass | Myclobutanil | ND | 0.030 | 0.010 | 9 | Pass |
| Bifenazate | ND | 0.030 | 0.008 | 5 | Pass | Naled | ND | 0.035 | 0.012 | 0.5 | Pass |
| Bifenthrin | ND | 0.049 | 0.016 | 0.5 | Pass | Oxamyl | ND | 0.031 | 0.010 | 0.3 | Pass |
| Boscalid | ND | 0.032 | 0.011 | 10 | Pass | Pentachloronitrobenzene | ND | 0.054 | 0.018 | 0.2 | Pass |
| Captan | ND | 0.358 | 0.120 | 5 | Pass | Permethrin | ND | 0.030 | 0.004 | 20 | Pass |
| Carbaryl | ND | 0.030 | 0.006 | 0.5 | Pass | Phosmet | ND | 0.030 | 0.008 | 0.2 | Pass |
| Chlorantraniliprole | ND | 0.030 | 0.007 | 40 | Pass | Piperonyl Butoxide | ND | 0.030 | 0.009 | 8 | Pass |
| Clofentezine | ND | 0.030 | 0.006 | 0.5 | Pass | Prallethrin | ND | 0.062 | 0.020 | 0.4 | Pass |
| Cyfluthrin | ND | 0.056 | 0.019 | 1 | Pass | Propiconazole | ND | 0.064 | 0.021 | 20 | Pass |
| Cypermethrin | ND | 0.044 | 0.015 | 1 | Pass | Pyrethrins | ND | 0.030 | 0.004 | 1 | Pass |
| Diazinon | ND | 0.082 | 0.027 | 0.2 | Pass | Pyridaben | ND | 0.030 | 0.008 | 3 | Pass |
| Dimethomorph | ND | 0.031 | 0.010 | 20 | Pass | Spinetoram | ND | 0.030 | 0.003 | 3 | Pass |
| Etoxazole | ND | 0.030 | 0.005 | 1.5 | Pass | Spinosad | ND | 0.030 | 0.003 | 3 | Pass |
| Fenhexamid | ND | 0.044 | 0.015 | 10 | Pass | Spiromesifen | ND | 0.031 | 0.010 | 12 | Pass |
| Fenpyroximate | ND | 0.030 | 0.010 | 2 | Pass | Spirotetramat | ND | 0.030 | 0.010 | 13 | Pass |
| Flonicamid | ND | 0.055 | 0.018 | 2 | Pass | Tebuconazole | ND | 0.065 | 0.021 | 2 | Pass |
| Fludioxonil | ND | 0.058 | 0.019 | 30 | Pass | Thiamethoxam | ND | 0.030 | 0.009 | 4.5 | Pass |
| Hexythiazox | ND | 0.066 | 0.022 | 2 | Pass | Trifloxystrobin | ND | 0.030 | 0.004 | 30 | Pass |
| Imidacloprid | ND | 0.070 | 0.023 | 3 | Pass | | | | | | |

Other Analyte(s):

NR= Not Reported (no analysis was performed), ND= Not Detected (the concentration is less than the Limit of Detection (LOD)). Analytical instrumentation used: LC-MS-MS & GC-MS-MS; samples analyzed according to SOPs PESTMYCO-LC-INST-004 and PEST-GC-INST-003.



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Josh M Swider

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Lab Director, Managing Partner
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