



Certificate of Analysis



Comfort massage oil
Matrix: Derivative
Accession Number: 080221UD0011
Harvest/Lot ID:
Seed to Sale: *
Batch Date: 07/19/21
Batch #:
Sample Size Received: 1 units
Retail Product Size:
Ordered: 08/02/21
Completed: 08/04/21
Expires: 08/03/22
Sampling Method: SOP Client Method

Aug 04, 2021 | Applied Botanicals

Louisville, KY,
(502) 694-6001



CANNABINOID RESULTS

| | | |
|-----------------------------------|-----------------------------------|--------------------------------------------|
| Total THC 0.000% | Total CBD 0.589% | Total Cannabinoids 0.589% |
|-----------------------------------|-----------------------------------|--------------------------------------------|

| CBC | CBD | CBDA | CBDV | CBG | CBGA | CBN | D8-THC | D9-THC | THCA | THCV |
|------------------|------------|-------|-------|-------|-------|-------|--------|--------|-------|-------|
| ND | 0.589% | ND | ND | ND | ND | ND | ND | ND | ND | ND |
| ND | 5.890 mg/g | ND | ND | ND | ND | ND | ND | ND | ND | ND |
| LOD 0.001 | 0.0001 | 0.001 | 0.001 | 0.001 | 0.001 | 0.001 | 0.001 | 0.0001 | 0.001 | 0.001 |

| | | | |
|--------------------|---------------------------|------------------------------------------------|------------------------|
| Analyzed by | Date 08/02/2021 | Instrument used Shimadzu HPLC w/ PDA | Analysis Method |
|--------------------|---------------------------|------------------------------------------------|------------------------|

Full spectrum cannabinoid analysis utilizing High Performance Liquid Chromatography with UV detection (HPLC-PDA). (Method: SOP.KY.02.005) sample prep and Shimadzu High Sensitivity Method SOP.KY.02.012 for analysis. LOQ for all cannabinoids is 1 mg/L. % = %w/w = Percent (Weight of Analyte/Weight Product) Total Cannabinoids result reflects the absolute sum of all cannabinoids detected. **Total Potential THC/CBD is calculated using the following formulas to take into account the loss of a carboxyl group during decarboxylation Total THC = THC + (THCa*0.877) Total CBD = CBD + (CBDA*0.877)

| | |
|-----------------------------------|---------------|
| Filth & Foreign Matter | PASSED |
|-----------------------------------|---------------|

| | | | |
|--------------------|---------------------------|------------------------------------------------|------------------------|
| Analyzed by | Date 08/02/2021 | Instrument used Microscope (Amscope) | Analysis Method |
|--------------------|---------------------------|------------------------------------------------|------------------------|

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. SOP.KY.02.11

This report shall not be reproduced, unless in its entirety, without written approval from Universal Diagnostics. This report is an Universal Diagnostics 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.

Daniel Burriss
Lab Director

08/04/21

State License # 19-05-02P
ISO Accreditation # PJLA
ISO17025

Signature

Signed On



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Applied Botanics



Louisville, KY,
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Email: connor@appliedbotanics.com

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Table with 12 columns: Pesticides, LLOQ, Result, Units, Action Level, Pass / Fail, Pesticides, LLOQ, Result, Units, Action Level, Pass / Fail. Includes a large 'PASSED' watermark and lists various pesticides like Abamectin B1a, Acequinocyl, Aldicarb, etc.

Summary table with 4 columns: Analyzed by, Date, Instrument used, Analysis Method.

Pesticide screening is performed using LC/MS/MS which can screen down to below single digit ppb concentrations for the 57 pesticides analyzed. (Method: SOP.KY.02.022)

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Mycotoxins **PASSED**

| Analyte | LLOQ | Result | Units | Action Level | Pass / Fail | Analyte | LLOQ | Result | Units | Action Level | Pass / Fail |
|---------------|-------|--------|-------|--------------|-------------|--------------|-------|--------|-------|--------------|-------------|
| Aflatoxin B1 | 0.001 | ND | ppm | 0.2 | PASS | Aflatoxin B2 | 0.001 | ND | ppm | 0.2 | PASS |
| Aflatoxin G1 | 0.001 | ND | ppm | 0.2 | PASS | Aflatoxin G2 | 0.001 | ND | ppm | 0.2 | PASS |
| Ochratoxin A+ | 0.001 | ND | ppm | 0.2 | PASS | | | | | | |

| Analyzed by | Date | Instrument used | Analysis Method |
|-------------|------------|----------------------|-----------------|
| | 08/02/2021 | Shimadzu LCMSMS 8060 | |

Aflatoxins B1, B2, G1, G2, and Ochratoxins A testing using LC/MS/MS. (Method: SOP.KY.02.022)

Residual Solvents **PASSED**

| Solvent | LLOQ | Result | Units | Action Level (PPM) | Pass/Fail |
|---------------|------|--------|-------|--------------------|-----------|
| 2-Propanol | 60.0 | ND | ppm | 5000 | PASS |
| Acetone | 60 | ND | ppm | 5000 | PASS |
| Acetonitrile | 60 | ND | ppm | 410 | PASS |
| Butane | 200 | ND | ppm | 5000 | PASS |
| Ethanol | 80 | ND | ppm | 5000 | PASS |
| Ethyl Acetate | 60 | ND | ppm | 5000 | PASS |
| Ethyl Ether | 40 | ND | ppm | 5000 | PASS |
| Heptane | 40 | ND | ppm | 5000 | PASS |
| Hexane | 40 | ND | ppm | 290 | PASS |
| Isobutane | 200 | ND | ppm | 5000 | PASS |
| M/P-Xylene | 80 | ND | ppm | 2170 | PASS |
| Methanol | 40 | ND | ppm | 3000 | PASS |
| O-Xylene | 40 | ND | ppm | 2170 | PASS |
| Pentane | 60 | ND | ppm | 5000 | PASS |
| Propane | 400 | ND | ppm | 5000 | PASS |
| Toluene | 40 | ND | ppm | 890 | PASS |
| Total Xylenes | 120 | ND | ppm | 2170 | PASS |

| Analyzed by | Date | Instrument used | Analysis Method |
|-------------|------------|-------------------|-----------------|
| | 08/02/2021 | Shimadzu GC 2010+ | |

Residual solvents testing for 16 common extraction solvents is performed via GC/MS. (Method: SOP.KY.02.024)

Heavy Metals **PASSED**

| Metal | LLOQ | Result | Unit | Action Level | Pass / Fail |
|---------|------|--------|------|--------------|-------------|
| Arsenic | 0.2 | ND | ppm | 2 | PASS |
| Cadmium | 0.2 | ND | ppm | 2 | PASS |
| Lead | 0.2 | ND | ppm | 5 | PASS |
| Mercury | 0.2 | ND | ppm | 1 | PASS |

| Analyzed by | Date | Instrument used | Analysis Method |
|-------------|------------|-----------------|-----------------|
| | 08/02/2021 | Shimadzu ICP/MS | |

Heavy Metals screening is performed using ICP-MS (Inductively Coupled Plasma – Mass Spectrometer) which can screen for toxic heavy metals (Arsenic, Cadmium, Lead, and Mercury). (Method SOP.KY.02.020)

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. |
| E. Coli | not present in 1 gram. |
| Salmonella | not present in 1 gram. |

| Analyzed by | Date | Instrument used | Analysis Method |
|-------------|------------|-----------------|-----------------|
| | 08/02/2021 | PathogenDX | |

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.KY.02.018) 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.

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