

082724-KL-Lemongrass-2000mg

Sample ID: SA-240827-47365
 Batch: 08/27/24
 Type: Finished Product - Topical
 Matrix: Topical - Salve
 Unit Mass (g): 56.7

Received: 09/03/2024
 Completed: 09/13/2024

Client
 Frozen Fields LLC
 289 Silkwood Dr
 Canton, NC 28716
 USA



Summary

| Test | Date Tested | Status |
|-------------------|-------------|--------|
| Cannabinoids | 09/13/2024 | Tested |
| Heavy Metals | 09/06/2024 | Tested |
| Microbials | 09/10/2024 | Tested |
| Mycotoxins | 09/10/2024 | Tested |
| Pesticides | 09/10/2024 | Tested |
| Residual Solvents | 09/05/2024 | Tested |

| | | | | | |
|----------------------------------|-----------------------|--------------------------------------|---------------------------------------|-------------------------------------|---|
| 0.00971 % Total Δ9-THC | 0.817 % CBD | 0.856 % Total Cannabinoids | Not Tested Moisture Content | Not Tested Foreign Matter | Yes Internal Standard Normalization |
|----------------------------------|-----------------------|--------------------------------------|---------------------------------------|-------------------------------------|---|

Cannabinoids by HPLC-PDA

| Analyte | LOD (%) | LOQ (%) | Result (%) | Result (mg/unit) |
|---------------------|---------|---------|----------------|------------------|
| CBC | 0.00095 | 0.00284 | 0.0122 | 6.93 |
| CBCA | 0.00181 | 0.00543 | ND | ND |
| CBCV | 0.0006 | 0.0018 | ND | ND |
| CBD | 0.00081 | 0.00242 | 0.817 | 464 |
| CBDA | 0.00043 | 0.0013 | ND | ND |
| CBDV | 0.00061 | 0.00182 | 0.00423 | 2.40 |
| CBDVA | 0.00021 | 0.00063 | ND | ND |
| CBG | 0.00057 | 0.00172 | ND | ND |
| CBGA | 0.00049 | 0.00147 | ND | ND |
| CBL | 0.00112 | 0.00335 | ND | ND |
| CBLA | 0.00124 | 0.00371 | ND | ND |
| CBN | 0.00056 | 0.00169 | 0.0121 | 6.86 |
| CBNA | 0.0006 | 0.00181 | ND | ND |
| CBT | 0.0018 | 0.0054 | ND | ND |
| Δ8-THC | 0.00104 | 0.00312 | ND | ND |
| Δ9-THC | 0.00076 | 0.00227 | 0.00971 | 5.51 |
| Δ9-THCA | 0.00084 | 0.00251 | ND | ND |
| Δ9-THCV | 0.00069 | 0.00206 | ND | ND |
| Δ9-THCVA | 0.00062 | 0.00186 | ND | ND |
| Total Δ9-THC | | | 0.00971 | 5.51 |
| Total | | | 0.856 | 485 |

ND = Not Detected; NT = Not Tested; LOD = Limit of Detection; LOQ = Limit of Quantitation; RL = Reporting Limit; Δ = Delta; Total Δ9-THC = Δ9-THCA * 0.877 + Δ9-THC; Total CBD = CBDA * 0.877 + CBD;



Generated By: Ryan Bellone
 CCO
 Date: 09/13/2024



Tested By: Kelsey Rogers
 Scientist
 Date: 09/13/2024



ISO/IEC 17025:2017 Accredited
 Accreditation #108651





KCA Laboratories
232 North Plaza Drive
Nicholasville, KY 40356

+1-833-KCA-LABS
<https://kcalabs.com>
KDA Lic.# P_0058

Certificate of Analysis

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Heavy Metals by ICP-MS

| Analyte | LOD (ppm) | LOQ (ppm) | Result (ppm) |
|---------|-----------|-----------|--------------|
| Arsenic | 0.002 | 0.02 | ND |
| Cadmium | 0.001 | 0.02 | ND |
| Lead | 0.002 | 0.02 | ND |
| Mercury | 0.012 | 0.05 | ND |

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Generated By: Ryan Bellone
CCO

Date: 09/13/2024

Tested By: Chris Farman
Scientist

Date: 09/06/2024



This product or substance has been tested by KCA Laboratories using validated testing methodologies and an ISO/IEC 17025:2017 accredited quality system. Values reported relate only to the product or substance tested. The reported result is based on a sample weight. Unless otherwise stated, results of tests performed on all quality control samples met criteria for acceptance established by KCA Laboratories. KCA Laboratories makes no claims as to the efficacy, safety or other risks associated with any detected or non-detected amounts of any substances reported herein. This Certificate of Analysis shall not be reproduced except in full, without the written approval of KCA Laboratories. KCA Laboratories can provide measurement uncertainty upon request.

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Pesticides by LC-MS/MS

| Analyte | LOD (ppb) | LOQ (ppb) | Result (ppb) | Analyte | LOD (ppb) | LOQ (ppb) | Result (ppb) |
|----------------------|-----------|-----------|--------------|--------------------|-----------|-----------|--------------|
| Abamectin | 30 | 100 | ND | Hexythiazox | 30 | 100 | ND |
| Acetamiprid | 30 | 100 | ND | Imazalil | 30 | 100 | ND |
| Azoxystrobin | 30 | 100 | ND | Imidacloprid | 30 | 100 | ND |
| Bifenazate | 30 | 100 | ND | Kresoxim methyl | 30 | 100 | ND |
| Bifenthrin | 30 | 100 | ND | Malathion | 30 | 100 | ND |
| Boscalid | 30 | 100 | ND | Metaxyl | 30 | 100 | ND |
| Carbaryl | 30 | 100 | ND | Methiocarb | 30 | 100 | ND |
| Carbofuran | 30 | 100 | ND | Mevinphos | 30 | 100 | ND |
| Chloranthraniliprole | 30 | 100 | ND | Myclobutanil | 30 | 100 | ND |
| Chlorfenapyr | 30 | 100 | ND | Naled | 30 | 100 | ND |
| Chlorpyrifos | 30 | 100 | ND | Oxamyl | 30 | 100 | ND |
| Clofentezine | 30 | 100 | ND | Paclobutrazol | 30 | 100 | ND |
| Coumaphos | 30 | 100 | <LOQ | Permethrin | 30 | 100 | ND |
| Cypermethrin | 30 | 100 | ND | Phosmet | 30 | 100 | ND |
| Diazinon | 30 | 100 | ND | Piperonyl Butoxide | 30 | 100 | ND |
| Dichlorvos | 30 | 100 | ND | Prallethrin | 30 | 100 | ND |
| Dimethoate | 30 | 100 | ND | Propiconazole | 30 | 100 | ND |
| Dimethomorph | 30 | 100 | ND | Propoxur | 30 | 100 | ND |
| Ethoprophos | 30 | 100 | ND | Pyrethrins | 30 | 100 | ND |
| Etofenprox | 30 | 100 | ND | Pyridaben | 30 | 100 | ND |
| Etoazole | 30 | 100 | ND | Spinetoram | 30 | 100 | ND |
| Fenhexamid | 30 | 100 | ND | Spinosad | 30 | 100 | ND |
| Fenoxycarb | 30 | 100 | ND | Spiromesifen | 30 | 100 | ND |
| Fenpyroximate | 30 | 100 | ND | Spirotetramat | 30 | 100 | ND |
| Fipronil | 30 | 100 | ND | Spiroxamine | 30 | 100 | ND |
| Fludioxonil | 30 | 100 | ND | Tebuconazole | 30 | 100 | ND |
| | | | | Thiacloprid | 30 | 100 | ND |
| | | | | Thiamethoxam | 30 | 100 | ND |
| | | | | Trifloxystrobin | 30 | 100 | ND |

ND = Not Detected; NT = Not Tested; LOD = Limit of Detection; LOQ = Limit of Quantitation; P = Pass; F = Fail; RL = Reporting Limit; Values over action limits may be estimates



Generated By: Ryan Bellone
 CCO

Date: 09/13/2024



Tested By: Anthony Mattingly
 Scientist

Date: 09/10/2024





KCA Laboratories
232 North Plaza Drive
Nicholasville, KY 40356

+1-833-KCA-LABS
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KDA Lic.# P_0058

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Mycotoxins by LC-MS/MS

| Analyte | LOD (ppb) | LOQ (ppb) | Result (ppb) |
|--------------|-----------|-----------|--------------|
| B1 | 1 | 5 | ND |
| B2 | 1 | 5 | ND |
| G1 | 1 | 5 | ND |
| G2 | 1 | 5 | ND |
| Ochratoxin A | 1 | 5 | ND |

ND = Not Detected; NT = Not Tested; LOD = Limit of Detection; LOQ = Limit of Quantitation; P = Pass; F = Fail; RL = Reporting Limit; Values over action limits may be estimates

Generated By: Ryan Bellone
CCO
Date: 09/13/2024

Tested By: Anthony Mattingly
Scientist
Date: 09/10/2024



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Microbials by PCR and Plating

| Analyte | LOD (CFU/g) | Result (CFU/g) | Result (Qualitative) |
|--------------------------------------|-------------|----------------|-------------------------|
| Total aerobic count | 10 | <RL | |
| Total coliforms | 10 | ND | |
| Generic E. coli | 10 | ND | |
| Salmonella spp. | 1 | | Not Detected per 1 gram |
| Shiga-toxin producing E. coli (STEC) | 1 | | Not Detected per 1 gram |

ND = Not Detected; NT = Not Tested; LOD = Limit of Detection; LOQ = Limit of Quantitation; CFU = Colony Forming Units; P = Pass; F = Fail; RL = Reporting Limit



Generated By: Ryan Bellone
 CCO
 Date: 09/13/2024



Tested By: Jade Pinkston
 Microbiology Technician
 Date: 09/10/2024



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Residual Solvents by HS-GC-MS

| Analyte | LOD (ppm) | LOQ (ppm) | Result (ppm) | Analyte | LOD (ppm) | LOQ (ppm) | Result (ppm) |
|-----------------------|-----------|-----------|--------------|--------------------------|-----------|-----------|--------------|
| Acetone | 167 | 500 | ND | Ethylene Oxide | 0.5 | 1 | ND |
| Acetonitrile | 14 | 41 | ND | Heptane | 167 | 500 | ND |
| Benzene | 0.5 | 1 | ND | n-Hexane | 10 | 29 | ND |
| Butane | 167 | 500 | ND | Isobutane | 167 | 500 | ND |
| 1-Butanol | 167 | 500 | ND | Isopropyl Acetate | 167 | 500 | ND |
| 2-Butanol | 167 | 500 | ND | Isopropyl Alcohol | 167 | 500 | ND |
| 2-Butanone | 167 | 500 | ND | Isopropylbenzene | 167 | 500 | ND |
| Chloroform | 2 | 6 | ND | Methanol | 100 | 300 | ND |
| Cyclohexane | 129 | 388 | ND | 2-Methylbutane | 10 | 29 | ND |
| 1,2-Dichloroethane | 0.5 | 1 | ND | Methylene Chloride | 20 | 60 | ND |
| 1,2-Dimethoxyethane | 4 | 10 | ND | 2-Methylpentane | 10 | 29 | ND |
| Dimethyl Sulfoxide | 167 | 500 | ND | 3-Methylpentane | 10 | 29 | ND |
| N,N-Dimethylacetamide | 37 | 109 | ND | n-Pentane | 167 | 500 | ND |
| 2,2-Dimethylbutane | 10 | 29 | ND | 1-Pentanol | 167 | 500 | ND |
| 2,3-Dimethylbutane | 10 | 29 | ND | n-Propane | 167 | 500 | ND |
| N,N-Dimethylformamide | 30 | 88 | ND | 1-Propanol | 167 | 500 | ND |
| 2,2-Dimethylpropane | 167 | 500 | ND | Pyridine | 7 | 20 | ND |
| 1,4-Dioxane | 13 | 38 | ND | Tetrahydrofuran | 24 | 72 | ND |
| Ethanol | 167 | 500 | ND | Toluene | 30 | 89 | ND |
| 2-Ethoxyethanol | 6 | 16 | ND | Trichloroethylene | 3 | 8 | ND |
| Ethyl Acetate | 167 | 500 | ND | Xylenes (o-, m-, and p-) | 73 | 217 | ND |
| Ethyl Ether | 167 | 500 | ND | | | | |
| Ethylbenzene | 3 | 7 | ND | | | | |

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Generated By: Ryan Bellone
 CCO

Date: 09/13/2024



Tested By: Kelsey Rogers
 Scientist

Date: 09/05/2024



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Reporting Limit Appendix

Heavy Metals - KY 902 KAR 45:190

| Analyte | Limit (ppm) | Analyte | Limit (ppm) |
|---------|-------------|---------|-------------|
| Arsenic | 1.5 | Lead | 0.5 |
| Cadmium | 0.5 | Mercury | 1.5 |

Microbials -

| Analyte | Limit (CFU/g) | Analyte | Limit (CFU/g) |
|-----------------|---------------|---------------------|---------------|
| Total coliforms | 100 | Total aerobic count | 10000 |

Residual Solvents - USP 467

| Analyte | Limit (ppm) | Analyte | Limit (ppm) |
|-----------------------|-------------|--------------------------|-------------|
| Acetone | 5000 | Ethylene Oxide | 1 |
| Acetonitrile | 410 | Heptane | 5000 |
| Benzene | 2 | n-Hexane | 290 |
| Butane | 5000 | Isobutane | 5000 |
| 1-Butanol | 5000 | Isopropyl Acetate | 5000 |
| 2-Butanol | 5000 | Isopropyl Alcohol | 5000 |
| 2-Butanone | 5000 | Isopropylbenzene | 5000 |
| Chloroform | 60 | Methanol | 3000 |
| Cyclohexane | 3880 | 2-Methylbutane | 290 |
| 1,2-Dichloroethane | 5 | Methylene Chloride | 600 |
| 1,2-Dimethoxyethane | 100 | 2-Methylpentane | 290 |
| Dimethyl Sulfoxide | 5000 | 3-Methylpentane | 290 |
| N,N-Dimethylacetamide | 1090 | n-Pentane | 5000 |
| 2,2-Dimethylbutane | 290 | 1-Pentanol | 5000 |
| 2,3-Dimethylbutane | 290 | n-Propane | 5000 |
| N,N-Dimethylformamide | 880 | 1-Propanol | 5000 |
| 2,2-Dimethylpropane | 5000 | Pyridine | 200 |
| 1,4-Dioxane | 380 | Tetrahydrofuran | 720 |
| Ethanol | 5000 | Toluene | 890 |
| 2-Ethoxyethanol | 160 | Trichloroethylene | 80 |
| Ethyl Acetate | 5000 | Xylenes (o-, m-, and p-) | 2170 |
| Ethyl Ether | 5000 | | |
| Ethylbenzene | 70 | | |

Pesticides - CA DCC

| Analyte | Limit (ppb) | Analyte | Limit (ppb) |
|----------------------|-------------|--------------------|-------------|
| Azoxystrobin | 40000 | Imidacloprid | 3000 |
| Bifenazate | 5000 | Kresoxim methyl | 1000 |
| Bifenthrin | 500 | Malathion | 5000 |
| Boscalid | 10000 | Metalaxyl | 15000 |
| Carbaryl | 500 | Methiocarb | 30 |
| Carbofuran | 30 | Mevinphos | 30 |
| Chloranthraniliprole | 40000 | Myclobutanil | 9000 |
| Chlorfenapyr | 30 | Naled | 500 |
| Chlorpyrifos | 30 | Oxamyl | 200 |
| Clofentezine | 500 | Paclobutrazol | 30 |
| Coumaphos | 30 | Permethrin | 20000 |
| Cypermethrin | 1000 | Phosmet | 200 |
| Diazinon | 200 | Piperonyl Butoxide | 8000 |
| Dichlorvos | 30 | Prallethrin | 400 |
| Dimethoate | 30 | Propiconazole | 20000 |
| Dimethomorph | 20000 | Propoxur | 30 |
| Ethoprophos | 30 | Pyrethrins | 1000 |
| Etofenprox | 30 | Pyridaben | 3000 |
| Etoazole | 1500 | Spinetoram | 3000 |
| Fenhexamid | 10000 | Spinosad | 3000 |
| Fenoxycarb | 30 | Spiromesifen | 12000 |
| Fenpyroximate | 2000 | Spirotetramat | 13000 |
| Fipronil | 30 | Spiroxamine | 30 |
| Fludioxonil | 30000 | Tebuconazole | 2000 |

Mycotoxins - Colorado CDPHE

| Analyte | Limit (ppb) | Analyte | Limit (ppb) |
|--------------|-------------|---------|-------------|
| B1 | 5 | B2 | 5 |
| G1 | 5 | G2 | 5 |
| Ochratoxin A | 5 | | |

Pesticides - CA DCC

| Analyte | Limit (ppb) | Analyte | Limit (ppb) |
|-------------|-------------|-------------|-------------|
| Abamectin | 300 | Hexythiazox | 2000 |
| Acetamiprid | 5000 | Imazalil | 30 |

