



Topical
Sample Matrix:
CBD/HEMP
Derivative Products
(External Use)



License No. 800025015
FL License # CMTL-0003
CLIA No. 10D1094068

Certificate of Analysis

Compliance Test

PUR ISOLABS LLC
46 FM 3351 N
BERGHEIM, TEXAS 78004

Batch # MH-Lotion-2022
Batch Date: 2022-01-01

Sampling Method: MSP 7.3.1
Test Reg State: Florida

Order # PUR220217-040001
Order Date: 2022-02-17
Sample # AACM604

Sampling Date: 2022-02-22
Lab Batch Date: 2022-02-22
Completion Date: 2022-02-26

Initial Gross Weight: 80.454 g



Product Image

Potency
Tested

Terpenes
Tested

Heavy Metals
Passed

Mycotoxins
Passed

Pesticides
Passed

Residual
Solvents
Passed

Listeria
Monocytogenes
Passed

Pathogenic
Passed

Potency - 11

Specimen Weight: 101.510 mg

Tested
(LCU)

| Analyte | Dilution (1:n) | LOD (%) | LOQ (%) | Result (mg/g) | (%) |
|-------------|----------------|----------|---------|---------------|-------|
| CBD | 1000.000 | 0.000054 | 0.001 | 2.520 | 0.252 |
| CBG | 1000.000 | 0.000248 | 0.001 | 0.430 | 0.043 |
| CBC | 1000.000 | 0.000018 | 0.001 | | <LOQ |
| THCV | 1000.000 | 0.000007 | 0.001 | | <LOQ |
| Delta-9 THC | 1000.000 | 0.000013 | 0.001 | | <LOQ |
| Delta-8 THC | 1000.000 | 0.000026 | 0.001 | | <LOQ |
| CBN | 1000.000 | 0.000014 | 0.001 | | <LOQ |
| CBGA | 1000.000 | 0.00008 | 0.001 | | <LOQ |
| CBDV | 1000.000 | 0.000065 | 0.001 | | <LOQ |
| CBDA | 1000.000 | 0.00001 | 0.001 | | <LOQ |
| THCA-A | 1000.000 | 0.000032 | 0.001 | | <LOQ |

Potency Summary

| | |
|-------------------------------------|------------------------------|
| Total THC None Detected | Total CBD 0.252% |
| Total CBG 0.043% | Total CBN None Detected |
| Other Cannabinoids None Detected | Total Cannabinoids 0.295% |

Terpenes Summary

| Analyte | Result (mg/g) | (%) |
|----------|---------------|--------|
| Pulegone | 3.79 | 0.379% |

Total Terpenes: 0.379%

Detailed Terpenes Analysis is on the following page

Xueli Gao
Ph.D., DABT
Lab Toxicologist

Aixia Sun
D.H.Sc., M.Sc., B.Sc., MT (AAB)
Lab Director/Principal Scientist



Definitions and Abbreviations used in this report: *Total CBD = CBD + (CBD-A * 0.877), *Total CBDV = CBDV + (CBDVA * 0.87), *Total THC = THCA-A * 0.877 + Delta 9 THC, *Total THCV = THCV + (THCVA * 0.87), *CBG Total = (CBGA * 0.877) + CBG, *CBN Total = (CBNA * 0.877) + CBN, *Total CBC = CBC + (CBCA * 0.877), *Total THC-O-Acetate = Delta 8 THC-O-Acetate + Delta 9 THC-O-Acetate, *Other Cannabinoids Total = Total Cannabinoids - All the listed cannabinoids on the summary section, *Total Detected Cannabinoids = Delta8-THC + Total CBN + CBT + Delta8-THCV + Total CBG + Total CBD + Total THCV + CBL + Total THC + Total CBC + Total CBDV + Delta10-THC + Total THC-O-Acetate, *Analyte Details above show the Dry Weight Concentrations unless specified as 12% moisture concentration. (mg/ml) = Milligrams per Milliliter, LOQ = Limit of Quantitation, LOD = Limit of Detection, Dilution = Dilution Factor (ppb) = Parts per Billion, (%) = Percent, (cfu/g) = Colony Forming Unit per Gram (cfu/g) = Colony Forming Unit per Gram, LOD = Limit of Detection, (µg/g) = Microgram per Gram (ppm) = Parts per Million, (ppm) = (µg/g), (aw) = aw (area ratio) = Area Ratio, (mg/Kg) = Milligram per Kilogram, *Measurement of Uncertainty = +/- 10%



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Lab Batch Date: 2022-02-22
Completion Date: 2022-02-26

Initial Gross Weight: 80.454 g

Terpenes Tested (GC/GCMS)

Specimen Weight: 103.800 mg

Dilution Factor: 20.000

| Analyte | LOQ (%) | Result (mg/g) | (%) | Analyte | LOQ (%) | Result (mg/g) | (%) |
|---------------------|---------|---------------|-------|---------------------|---------|---------------|------|
| Pulegone | 0.002 | 3.790 | 0.379 | (R)-(+)-Limonene | 0.002 | <LOQ | <LOQ |
| (+)-Cedrol | 0.002 | <LOQ | <LOQ | beta-Myrcene | 0.002 | <LOQ | <LOQ |
| Nerol | 0.002 | <LOQ | <LOQ | 3-Carene | 0.002 | <LOQ | <LOQ |
| Geranyl acetate | 0.002 | <LOQ | <LOQ | alpha-Bisabolol | 0.002 | <LOQ | <LOQ |
| Guaiol | 0.002 | <LOQ | <LOQ | alpha-Cedrene | 0.002 | <LOQ | <LOQ |
| Hexahydrothymol | 0.002 | <LOQ | <LOQ | alpha-Humulene | 0.002 | <LOQ | <LOQ |
| Isoborneol | 0.002 | <LOQ | <LOQ | alpha-Phellandrene | 0.002 | <LOQ | <LOQ |
| Isopulegol | 0.002 | <LOQ | <LOQ | alpha-Pinene | 0.002 | <LOQ | <LOQ |
| Linalool | 0.002 | <LOQ | <LOQ | alpha-Terpinene | 0.002 | <LOQ | <LOQ |
| Ocimene | 0.000 | <LOQ | <LOQ | beta-Pinene | 0.002 | <LOQ | <LOQ |
| Gamma-Terpinene | 0.002 | <LOQ | <LOQ | Fenchone | 0.002 | <LOQ | <LOQ |
| Sabinene | 0.002 | <LOQ | <LOQ | Borneol | 0.004 | <LOQ | <LOQ |
| Sabinene Hydrate | 0.002 | <LOQ | <LOQ | Camphene | 0.002 | <LOQ | <LOQ |
| Terpinolene | 0.002 | <LOQ | <LOQ | Camphors | 0.006 | <LOQ | <LOQ |
| Total Terpeneol | 0.001 | <LOQ | <LOQ | Caryophyllene oxide | 0.002 | <LOQ | <LOQ |
| trans-Caryophyllene | 0.002 | <LOQ | <LOQ | cis-Nerolidol | 0.002 | <LOQ | <LOQ |
| trans-Nerolidol | 0.002 | <LOQ | <LOQ | Eucalyptol | 0.002 | <LOQ | <LOQ |
| Geraniol | 0.002 | <LOQ | <LOQ | Farnesene | 0.002 | <LOQ | <LOQ |
| Fenchyl Alcohol | 0.002 | <LOQ | <LOQ | Valencene | 0.002 | <LOQ | <LOQ |

Total Terpenes: 0.379%

Mycotoxins

Specimen Weight: 164.300 mg

Dilution Factor: 9.130

| Analyte | LOQ (ppb) | Action Level (ppb) | Result (ppb) | Analyte | LOQ (ppb) | Action Level (ppb) | Result (ppb) |
|--------------|-----------|--------------------|--------------|--------------|-----------|--------------------|--------------|
| Aflatoxin B1 | 6 | 20 | <LOQ | Aflatoxin G2 | 6 | 20 | <LOQ |
| Aflatoxin B2 | 6 | 20 | <LOQ | Ochratoxin A | 12 | 20 | <LOQ |
| Aflatoxin G1 | 6 | 20 | <LOQ | | | | |

Passed Heavy Metals

Specimen Weight: 253.400 mg

Dilution Factor: 197

| Analyte | LOQ (ppb) | Action Level (ppb) | Result (ppb) | Analyte | LOQ (ppb) | Action Level (ppb) | Result (ppb) |
|--------------|-----------|--------------------|--------------|--------------|-----------|--------------------|--------------|
| Arsenic (As) | 100 | 1500 | <LOQ | Lead (Pb) | 100 | 500 | <LOQ |
| Cadmium (Cd) | 100 | 500 | <LOQ | Mercury (Hg) | 100 | 3000 | <LOQ |

Xueli Gao
Ph.D., DABT
Lab Toxicologist

Aixia Sun
D.H.Sc., M.Sc., B.Sc., MT (AAB)
Lab Director/Principal Scientist



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Completion Date: 2022-02-26

Initial Gross Weight: 80.454 g

Pesticides FL V4 **Passed** **Residual Solvents - FL (CBD)** **Passed**
Specimen Weight: 164.300 mg (LCMS/GCMS) Specimen Weight: 106.800 mg (GCMS)

Dilution Factor: 9.130

| Analyte | LOQ (ppb) | Action Level (ppb) | Result (ppb) | Analyte | LOQ (ppb) | Action Level (ppb) | Result (ppb) |
|-----------------------|-----------|--------------------|--------------|-------------------------|-----------|--------------------|--------------|
| Abamectin | 28.23 | 300 | <LOQ | Fludioxonil | 48 | 3000 | <LOQ |
| Acephate | 30 | 3000 | <LOQ | Hexythiazox | 30 | 2000 | <LOQ |
| Acequinocyl | 48 | 2000 | <LOQ | Imazalil | 30 | 100 | <LOQ |
| Acetaminiprid | 30 | 3000 | <LOQ | Imidacloprid | 30 | 3000 | <LOQ |
| Aldicarb | 30 | 100 | <LOQ | Kresoxim Methyl | 30 | 1000 | <LOQ |
| Azoxystrobin | 10 | 3000 | <LOQ | Malathion | 30 | 2000 | <LOQ |
| Bifenazate | 30 | 3000 | <LOQ | Metaxyl | 10 | 3000 | <LOQ |
| Bifenthrin | 30 | 500 | <LOQ | Methiocarb | 30 | 100 | <LOQ |
| Boscalid | 10 | 3000 | <LOQ | Methomyl | 30 | 100 | <LOQ |
| Captan | 30 | 3000 | <LOQ | methyl-Parathion | 10 | 100 | <LOQ |
| Carbaryl | 10 | 500 | <LOQ | Mevinphos | 10 | 100 | <LOQ |
| Carbofuran | 10 | 100 | <LOQ | Myclobutanil | 30 | 3000 | <LOQ |
| Chlorantranilprole | 10 | 3000 | <LOQ | Naled | 30 | 500 | <LOQ |
| Chlordane | 10 | 100 | <LOQ | Oxamyl | 30 | 500 | <LOQ |
| Chlorfenapyr | 30 | 100 | <LOQ | Pacllobutrazol | 30 | 100 | <LOQ |
| Chloromequat Chloride | 10 | 3000 | <LOQ | Pentachloronitrobenzene | 10 | 200 | <LOQ |
| Chlorpyrifos | 30 | 100 | <LOQ | Permethrin | 30 | 1000 | <LOQ |
| Clofentezine | 30 | 500 | <LOQ | Phosmet | 30 | 200 | <LOQ |
| Coumaphos | 48 | 100 | <LOQ | Piperonylbutoxide | 30 | 3000 | <LOQ |
| Cyfluthrin | 30 | 1000 | <LOQ | Prallethrin | 30 | 400 | <LOQ |
| Cypermethrin | 30 | 1000 | <LOQ | Propiconazole | 30 | 1000 | <LOQ |
| Daminozide | 30 | 100 | <LOQ | Propoxur | 30 | 100 | <LOQ |
| Diazinon | 30 | 200 | <LOQ | Pyrethrins | 30 | 1000 | <LOQ |
| Dichlorvos | 30 | 100 | <LOQ | Pyridaben | 30 | 3000 | <LOQ |
| Dimethoate | 30 | 100 | <LOQ | Spinetoram | 10 | 3000 | <LOQ |
| Dimethomorph | 48 | 3000 | <LOQ | Spinosad | 30 | 3000 | <LOQ |
| Ethoprophos | 30 | 100 | <LOQ | Spiromesifen | 30 | 3000 | <LOQ |
| Etofenprox | 30 | 100 | <LOQ | Spirotetramat | 30 | 3000 | <LOQ |
| Etoxazole | 30 | 1500 | <LOQ | Spiroxamine | 30 | 100 | <LOQ |
| Fenhexamid | 10 | 3000 | <LOQ | Tebuconazole | 30 | 1000 | <LOQ |
| Fenoxycarb | 30 | 100 | <LOQ | Thiacloprid | 30 | 100 | <LOQ |
| Fenpyroximate | 30 | 2000 | <LOQ | Thiamethoxam | 30 | 1000 | <LOQ |
| Fipronil | 30 | 100 | <LOQ | Trifloxystrobin | 30 | 3000 | <LOQ |
| Fonicamid | 30 | 2000 | <LOQ | | | | |

Dilution Factor: 5000.000

| Analyte | LOQ (ppm) | Action Level (ppm) | Result (ppm) | Analyte | LOQ (ppm) | Action Level (ppm) | Result (ppm) |
|--------------------|-----------|--------------------|--------------|--------------------|-----------|--------------------|--------------|
| 1,1-Dichloroethene | 0.16 | 8 | <LOQ | Heptane | 1.39 | 5000 | <LOQ |
| 1,2-Dichloroethane | 0.04 | 5 | <LOQ | Hexane | 1.17 | 290 | <LOQ |
| Acetone | 2.08 | 5000 | <LOQ | Isopropyl alcohol | 1.39 | 500 | <LOQ |
| Acetonitrile | 1.17 | 410 | <LOQ | Methanol | 0.69 | 3000 | <LOQ |
| Benzene | 0.02 | 2 | <LOQ | Methylene chloride | 2.43 | 600 | <LOQ |
| Butanes | 2.5 | 2000 | <LOQ | Pentane | 2.08 | 5000 | <LOQ |
| Chloroform | 0.04 | 60 | <LOQ | Propane | 5.83 | 2100 | <LOQ |
| Ethanol | 2.78 | 5000 | <LOQ | Toluene | 2.92 | 890 | <LOQ |
| Ethyl Acetate | 1.11 | 5000 | <LOQ | Total Xylenes | 2.92 | 2170 | <LOQ |
| Ethyl Ether | 1.39 | 5000 | <LOQ | Trichloroethylene | 0.49 | 80 | <LOQ |
| Ethylene Oxide | 0.1 | 5 | <LOQ | | | | |

Pathogenic SAE (qPCR) **Passed**
Specimen Weight: 221.500 mg (qPCR)

Dilution Factor: 1.000

| Analyte | Action Level (cfu/g) | Result (cfu/g) | Analyte | Action Level (cfu/g) | Result (cfu/g) |
|---|----------------------|----------------|------------|----------------------|----------------|
| Aspergillus (Flavus, Fumigatus, Niger, Terreus) | 1 | Absence in 1g | Salmonella | 1 | Absence in 1g |
| E.Coli | 1 | Absence in 1g | | | |

Listeria Monocytogenes **Passed**
Specimen Weight: 1023.440 mg (qPCR)

Dilution Factor: 1.000

| Analyte | Action Level (cfu/g) | Result |
|------------------------|----------------------|---------------|
| Listeria Monocytogenes | 1 | Absence in 1g |

Xueli Gao
Xueli Gao Lab Toxicologist
Ph.D., DABT

Aixia Sun
Aixia Sun Lab Director/Principal Scientist
D.H.Sc., M.Sc., B.Sc., MT (AAB)

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