



PPB Analytical Inc.

30 Tempo Ave, Toronto, ON M2H 2N8 (647)-812-5296
info@ppbanalytical.com | https://ppbanalytical.com/

Certificate of Analysis

Client Name Mountain Land Cannabis
Client Address 75 Spruce St East, Aylmer, Ontario N5H 0A1
Client Contact Lucia Wang (lucia.wang@mountain-land.com)

PPB Analytical Sample ID 3023_0900
Sample Receiving Date Nov. 09, 2023
Sample Registration Date Nov. 09, 2023
Receiving Condition Ambient
Client Sample Code# RBL0T2311-R3
Sample Description# RBL0T2311-R3
Sample size 35 + 5 g
Test Report Date Dec. 12, 2023

| Microbial Scan | | | | |
|--|-------------|------|--------|-------|
| Analyte | ATL* | RDL* | Result | Unit |
| Total Aerobic Microbial Count | NMT 500 000 | < 5 | 2,500 | CFU/g |
| Method: E.P. 2.6.12 | | | | |
| Analysis Date: Dec. 08, 2023 – Dec. 11, 2023 | | | | |

| | | | | |
|--|------------|-----|-----|-------|
| Total Combined Yeasts and Molds | NMT 50 000 | < 5 | 800 | CFU/g |
| Method: AOAC 2014.05 | | | | |
| Analysis Date: Dec. 08, 2023 – Dec. 11, 2023 | | | | |

| | | | | |
|--|------------|------|----------------------|-------|
| Bile Tolerant Gram Negatives | NMT 10 000 | < 10 | > 1 000 and ≤ 10 000 | CFU/g |
| Method: E.P. 2.6.31 | | | | |
| Analysis Date: Dec. 08, 2023 – Dec. 10, 2023 | | | | |

| | | | | |
|--|--------|--------|--------|---------|
| <i>Salmonella spp.</i> | Absent | Absent | Absent | in 25 g |
| Method: TM-MB-002 | | | | |
| Analysis Date: Nov. 09, 2023 – Nov. 11, 2023 | | | | |

| | | | | |
|--|--------|--------|--------|--------|
| <i>Escherichia coli</i> | Absent | Absent | Absent | in 1 g |
| Method: TM-MB-002 | | | | |
| Analysis Date: Nov. 09, 2023 – Nov. 11, 2023 | | | | |



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Cannabinoid Profile

| | | |
|------------------|--------|--------|
| Total THC | 31.108 | %(w/w) |
| Total CBD | 0.090 | %(w/w) |

| Analyte | Specification | LOD ^{##} % (w/w) | LOQ ^{##} % (w/w) | Result mg/g | Result % (w/w) |
|--------------|---------------|------------------------------|------------------------------|----------------|-------------------|
| CBDVA | Report | 0.002 | 0.005 | ND | ND |
| CBDV | Report | 0.004 | 0.013 | ND | ND |
| CBDA | Report | 0.002 | 0.006 | 1.0236 | 0.102 |
| CBGA | Report | 0.002 | 0.005 | 5.9480 | 0.595 |
| CBG | Report | 0.004 | 0.011 | 2.7036 | 0.270 |
| CBD | Report | 0.004 | 0.012 | ND | ND |
| THCV | Report | 0.004 | 0.012 | ND | ND |
| THCVA | Report | 0.002 | 0.005 | 1.9010 | 0.190 |
| CBN | Report | 0.004 | 0.012 | ND | ND |
| Delta-9-THC | Report | 0.004 | 0.011 | 4.1149 | 0.411 |
| Delta-8-THC | Report | 0.004 | 0.012 | ND | ND |
| CBC | Report | 0.003 | 0.009 | ND | ND |
| Delta-9-THCA | Report | 0.003 | 0.008 | 350.0221 | 35.002 |
| CBCA | Report | 0.002 | 0.006 | ND | ND |
| Total THC** | Report | 0.004 | 0.011 | 311.0843 | 31.108 |
| Total CBD*** | Report | 0.004 | 0.012 | 0.8977 | 0.090 |

** Total THC = delta9-THC + 0.877 × THCA-A; *** Total CBD = CBD + 0.877 × CBDA
 ND = Not Detected (< LOD)
 Remark: Result reported as is.
 Method: TM-CA-002
 Analysis Date: Nov. 10, 2023 – Nov. 13, 2023

Heavy metals

| Analyte | ATL (NMT)* | LOD ^{##} | LOQ ^{##} | Result | Unit |
|---------|------------|-------------------|-------------------|--------|------|
| Arsenic | 0.2 | 0.033 | 0.11 | ND | ppm |
| Cadmium | 0.3 | 0.018 | 0.06 | ND | ppm |
| Mercury | 0.1 | 0.023 | 0.078 | ND | ppm |
| Lead | 0.5 | 0.051 | 0.17 | ND | ppm |

ND = Not detected (< LOD)
 Method: TM-CA-008
 Analysis Date: Nov. 14, 2023 – Nov. 15, 2023

Loss on Drying

| Analyte | Specification | Result | Unit |
|----------------|---------------|--------|------|
| Loss on Drying | Report | 9.00 | % |



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ND = Not detected (< LOD)

Method: TM-CA-007

Analysis Date: Nov. 10, 2023 – Nov. 10, 2023

Mycotoxins

| Analyte | ATL (NMT)* | LOD ^{##} | LOQ ^{##} | Result | Unit |
|-------------------------------|------------|-------------------|-------------------|--------|------|
| Aflatoxin B1 | 2 | 0.1 | 1 | ND | ppb |
| Aflatoxin B2 | Report | 0.1 | 1 | ND | ppb |
| Aflatoxin G1 | Report | 0.1 | 1 | ND | ppb |
| Aflatoxin G2 | Report | 0.1 | 1 | ND | ppb |
| Total Aflatoxins(B1+B2+G1+G2) | 4 | | | ND | ppb |
| Ochratoxin A | 20 | 0.1 | 1.3 | ND | ppb |

ND = Not detected (< LOD)

Method: TM-CA-001

Analysis Date: Nov. 13, 2023 – Nov. 14, 2023

Pesticides – Health Canada

| Analyte | ATL (NMT)* | LOD ^{##} | LOQ ^{##} | Result | Unit |
|---------------------|------------|-------------------|-------------------|--------|------|
| Abamectin | 0.1 | 0.05 | 0.1 | ND | ppm |
| Acephate | 0.02 | 0.005 | 0.01 | ND | ppm |
| Acequinocyl | 0.03 | 0.005 | 0.01 | ND | ppm |
| Acetamiprid | 0.1 | 0.005 | 0.01 | ND | ppm |
| Aldicarb | 1 | 0.01 | 0.05 | ND | ppm |
| Allethrin | 0.2 | 0.05 | 0.1 | ND | ppm |
| Azadirachtin | 1 | 0.2 | 0.5 | ND | ppm |
| Azoxystrobin | 0.02 | 0.005 | 0.01 | ND | ppm |
| Benzovindiflupyr | 0.02 | 0.005 | 0.01 | ND | ppm |
| Bifenazate | 0.02 | 0.005 | 0.01 | ND | ppm |
| Bifenthrin | 1 | 0.01 | 0.05 | ND | ppm |
| Boscalid | 0.02 | 0.005 | 0.01 | ND | ppm |
| Buprofezin | 0.02 | 0.005 | 0.01 | ND | ppm |
| Carbaryl | 0.05 | 0.005 | 0.01 | ND | ppm |
| Carbofuran | 0.02 | 0.005 | 0.01 | ND | ppm |
| Chlorantraniliprole | 0.02 | 0.005 | 0.01 | ND | ppm |
| Chlorphenapyr | 0.05 | 0.01 | 0.05 | ND | ppm |
| Chlorpyrifos | 0.04 | 0.005 | 0.01 | ND | ppm |
| Clofentezine | 0.02 | 0.005 | 0.01 | ND | ppm |
| Clothianidin | 0.05 | 0.005 | 0.01 | ND | ppm |
| Coumaphos | 0.02 | 0.005 | 0.01 | ND | ppm |
| Cyantraniliprole | 0.02 | 0.005 | 0.01 | ND | ppm |
| Cyfluthrin | 0.2 | 0.05 | 0.2 | ND | ppm |

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| | | | | | |
|--------------------|------|-------|------|----|-----|
| Cypermethrin | 0.3 | 0.05 | 0.2 | ND | ppm |
| Cyprodinil | 0.25 | 0.005 | 0.01 | ND | ppm |
| Daminozide | 0.1 | 0.01 | 0.05 | ND | ppm |
| Deltamethrin | 0.5 | 0.05 | 0.2 | ND | ppm |
| Diazinon | 0.02 | 0.005 | 0.01 | ND | ppm |
| Dichlorvos | 0.1 | 0.005 | 0.01 | ND | ppm |
| Dimethoate | 0.02 | 0.005 | 0.01 | ND | ppm |
| Dimethomorph | 0.05 | 0.005 | 0.01 | ND | ppm |
| Dinotefuran | 0.1 | 0.005 | 0.01 | ND | ppm |
| Dodemorph | 0.05 | 0.005 | 0.01 | ND | ppm |
| Endosulfan sulfate | 0.05 | 0.01 | 0.05 | ND | ppm |
| Endosulfan-alpha | 0.2 | 0.05 | 0.1 | ND | ppm |
| Endosulfan-beta | 0.05 | 0.01 | 0.05 | ND | ppm |
| Ethoprophos | 0.02 | 0.005 | 0.01 | ND | ppm |
| Etofenprox | 0.05 | 0.005 | 0.01 | ND | ppm |
| Etoxazole | 0.02 | 0.005 | 0.01 | ND | ppm |
| Etridiazole | 0.03 | 0.005 | 0.01 | ND | ppm |
| Fenoxycarb | 0.02 | 0.005 | 0.01 | ND | ppm |
| Fenpyroximate | 0.02 | 0.005 | 0.01 | ND | ppm |
| Fensulfothion | 0.02 | 0.005 | 0.01 | ND | ppm |
| Fenthion | 0.02 | 0.005 | 0.01 | ND | ppm |
| Fenvalerate | 0.1 | 0.01 | 0.05 | ND | ppm |
| Fipronil | 0.06 | 0.005 | 0.01 | ND | ppm |
| Flonicamid | 0.05 | 0.005 | 0.01 | ND | ppm |
| Fludioxonil | 0.02 | 0.005 | 0.01 | ND | ppm |
| Fluopyram | 0.02 | 0.005 | 0.01 | ND | ppm |
| Hexythiazox | 0.01 | 0.005 | 0.01 | ND | ppm |
| Imazalil | 0.05 | 0.005 | 0.01 | ND | ppm |
| Imidacloprid | 0.02 | 0.005 | 0.01 | ND | ppm |
| Iprodione | 1 | 0.05 | 0.2 | ND | ppm |
| Kinoprene | 0.5 | 0.01 | 0.05 | ND | ppm |
| Kresoxim-methyl | 0.02 | 0.005 | 0.01 | ND | ppm |
| Malathion | 0.02 | 0.005 | 0.01 | ND | ppm |
| Metalaxyl | 0.02 | 0.005 | 0.01 | ND | ppm |
| Methiocarb | 0.02 | 0.005 | 0.01 | ND | ppm |
| Methomyl | 0.05 | 0.005 | 0.01 | ND | ppm |
| Methoprene | 2 | 0.2 | 0.5 | ND | ppm |
| Mevinphos | 0.05 | 0.005 | 0.01 | ND | ppm |
| MGK-264 | 0.05 | 0.005 | 0.01 | ND | ppm |
| Myclobutanil | 0.02 | 0.005 | 0.01 | ND | ppm |

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| | | | | | |
|--------------------|------|-------|------|----|-----|
| Naled | 0.1 | 0.05 | 0.1 | ND | ppm |
| Novaluron | 0.05 | 0.005 | 0.01 | ND | ppm |
| Oxamyl | 3 | 0.05 | 0.2 | ND | ppm |
| Pacllobutrazol | 0.02 | 0.005 | 0.01 | ND | ppm |
| Parathion-methyl | 0.05 | 0.005 | 0.01 | ND | ppm |
| Permethrin | 0.5 | 0.05 | 0.2 | ND | ppm |
| Phenothrin | 0.05 | 0.005 | 0.01 | ND | ppm |
| Phosmet | 0.02 | 0.005 | 0.01 | ND | ppm |
| Piperonyl butoxide | 0.2 | 0.005 | 0.01 | ND | ppm |
| Pirimicarb | 0.02 | 0.005 | 0.01 | ND | ppm |
| Prallethrin | 0.05 | 0.01 | 0.05 | ND | ppm |
| Propiconazole | 0.1 | 0.005 | 0.01 | ND | ppm |
| Propoxur | 0.02 | 0.005 | 0.01 | ND | ppm |
| Pyraclostrobin | 0.02 | 0.005 | 0.01 | ND | ppm |
| Pyrethrins | 0.05 | 0.005 | 0.01 | ND | ppm |
| Pyridaben | 0.05 | 0.005 | 0.01 | ND | ppm |
| Quintozene | 0.02 | 0.005 | 0.01 | ND | ppm |
| Resmethrin | 0.1 | 0.01 | 0.02 | ND | ppm |
| Spinetoram | 0.02 | 0.005 | 0.01 | ND | ppm |
| Spinosad | 0.1 | 0.005 | 0.01 | ND | ppm |
| Spirodiclofen | 0.25 | 0.05 | 0.2 | ND | ppm |
| Spiromesifen | 3 | 0.01 | 0.05 | ND | ppm |
| Spirotetramat | 0.02 | 0.005 | 0.01 | ND | ppm |
| Spiroxamine | 0.1 | 0.005 | 0.01 | ND | ppm |
| Tebuconazole | 0.05 | 0.005 | 0.01 | ND | ppm |
| Tebufenozide | 0.02 | 0.005 | 0.01 | ND | ppm |
| Teflubenzuron | 0.05 | 0.005 | 0.01 | ND | ppm |
| Tetrachlorvinphos | 0.02 | 0.005 | 0.01 | ND | ppm |
| Tetramethrin | 0.1 | 0.005 | 0.01 | ND | ppm |
| Thiacloprid | 0.02 | 0.005 | 0.01 | ND | ppm |
| Thiamethoxam | 0.02 | 0.005 | 0.01 | ND | ppm |
| Thiophanate-methyl | 0.05 | 0.005 | 0.01 | ND | ppm |
| Trifloxystrobin | 0.02 | 0.005 | 0.01 | ND | ppm |

ND = Not Detected (< LOD)

Method: TM-CA-001

Analysis Date: Nov. 13, 2023 – Nov. 14, 2023

Terpene Profile

2.143 % (w/w)

Total Terpene

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| Analyte | Specification | LOD ^{##} | LOQ ^{##} | Result | Unit |
|-------------------------------|---------------|-------------------|-------------------|--------|---------|
| beta-Caryophyllene | Report | 0.0025 | 0.005 | 0.667 | % (w/w) |
| d-Limonene | Report | 0.0025 | 0.005 | 0.553 | % (w/w) |
| Linalool | Report | 0.0025 | 0.005 | 0.269 | % (w/w) |
| alpha-Humulene | Report | 0.0025 | 0.005 | 0.157 | % (w/w) |
| beta-Myrcene | Report | 0.0025 | 0.005 | 0.121 | % (w/w) |
| trans-beta-Farnesene | Report | 0.0025 | 0.005 | 0.097 | % (w/w) |
| (-)-beta-Pinene | Report | 0.0025 | 0.005 | 0.080 | % (w/w) |
| (1R)-endo-(+)-Fenchyl alcohol | Report | 0.0025 | 0.005 | 0.051 | % (w/w) |
| alpha-Pinene | Report | 0.0025 | 0.005 | 0.044 | % (w/w) |
| alpha-Terpineol | Report | 0.0025 | 0.005 | 0.039 | % (w/w) |
| trans-Nerolidol | Report | 0.0025 | 0.005 | 0.029 | % (w/w) |
| Camphene | Report | 0.0025 | 0.005 | 0.013 | % (w/w) |
| L(-)-Borneol+ (+)-Borneol | Report | 0.0025 | 0.005 | 0.011 | % (w/w) |
| (-)-Caryophyllene oxide | Report | 0.0025 | 0.005 | 0.006 | % (w/w) |
| Eucalyptol | Report | 0.0025 | 0.005 | 0.005 | % (w/w) |
| Sabinene Hydrate | Report | 0.0025 | 0.005 | < LOQ | % (w/w) |
| Terpinolene+(1R)-(-)-Fenchone | Report | 0.0025 | 0.005 | < LOQ | % (w/w) |
| Geraniol | Report | 0.0025 | 0.005 | < LOQ | % (w/w) |
| (-)-alpha-Bisabolol | Report | 0.0025 | 0.005 | < LOQ | % (w/w) |
| Sabinene | Report | 0.0025 | 0.005 | ND | % (w/w) |
| R(-)-alpha-Phellandrene | Report | 0.0025 | 0.005 | ND | % (w/w) |
| (1S)-(+)-3-Carene | Report | 0.0025 | 0.005 | ND | % (w/w) |
| alpha-Terpinene | Report | 0.0025 | 0.005 | ND | % (w/w) |
| m-Isopropyltoluene | Report | 0.0025 | 0.005 | ND | % (w/w) |
| p-Isopropyltoluene (p-Cymene) | Report | 0.0025 | 0.005 | ND | % (w/w) |
| o-Isopropyltoluene | Report | 0.0025 | 0.005 | ND | % (w/w) |
| Ocimene | Report | 0.0025 | 0.005 | ND | % (w/w) |
| gamma-Terpinene | Report | 0.0025 | 0.005 | ND | % (w/w) |
| (-)-alpha-Thujone | Report | 0.0025 | 0.005 | ND | % (w/w) |
| (-)-Isopulegol | Report | 0.0025 | 0.005 | ND | % (w/w) |
| Camphor | Report | 0.0025 | 0.005 | ND | % (w/w) |
| Menthone | Report | 0.0025 | 0.005 | ND | % (w/w) |
| Isoborneol | Report | 0.0025 | 0.005 | ND | % (w/w) |
| Menthol | Report | 0.0025 | 0.005 | ND | % (w/w) |
| d-Valerolactam | Report | 0.0025 | 0.005 | ND | % (w/w) |
| Terpinene-4-ol | Report | 0.0025 | 0.005 | ND | % (w/w) |
| Safranal | Report | 0.0025 | 0.005 | ND | % (w/w) |
| Octyl acetate | Report | 0.0025 | 0.005 | ND | % (w/w) |
| (-)-Verbenone | Report | 0.0025 | 0.005 | ND | % (w/w) |
| Citronellol | Report | 0.0025 | 0.005 | ND | % (w/w) |

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| | | | | | |
|--|--------|--------|-------|-------|---------|
| Nerol | Report | 0.0025 | 0.005 | ND | % (w/w) |
| (R)-(+)-Pulegone | Report | 0.0025 | 0.005 | ND | % (w/w) |
| (S)-(+)-Carvone | Report | 0.0025 | 0.005 | ND | % (w/w) |
| Piperitone | Report | 0.0025 | 0.005 | ND | % (w/w) |
| Citral | Report | 0.0025 | 0.005 | ND | % (w/w) |
| Thymol | Report | 0.0025 | 0.005 | ND | % (w/w) |
| Isobornyl acetate | Report | 0.0025 | 0.005 | ND | % (w/w) |
| Carvacrol | Report | 0.0025 | 0.005 | ND | % (w/w) |
| Geranyl Acetate | Report | 0.0025 | 0.005 | ND | % (w/w) |
| (-)-a-Cedrene | Report | 0.0025 | 0.005 | ND | % (w/w) |
| Valencene | Report | 0.0025 | 0.005 | ND | % (w/w) |
| cis-Nerolidol | Report | 0.0025 | 0.005 | ND | % (w/w) |
| (-)-Guaiol | Report | 0.0025 | 0.005 | ND | % (w/w) |
| Cedrol | Report | 0.0025 | 0.005 | ND | % (w/w) |
| Farnesol-1 | Report | 0.0025 | 0.005 | ND | % (w/w) |
| Farnesol-2 | Report | 0.0025 | 0.005 | ND | % (w/w) |
| Phytane | Report | 0.0025 | 0.005 | ND | % (w/w) |
| (+)-Nootkatone | Report | 0.0025 | 0.005 | ND | % (w/w) |
| Squalene | Report | 0.0025 | 0.005 | ND | % (w/w) |
| Total Terpene | Report | | | 2.143 | % (w/w) |
| ND = Not Detected (< LOD) | | | | | |
| Method: TM-CA-005 | | | | | |
| Analysis Date: Nov. 10, 2023 – Nov. 14, 2023 | | | | | |

* RDL = Reporting Detection Limit; ATL (NMT) = Action Level (Not More Than)

LOQ = Limit of Quantification; LOD = Limit of Detection

Results shown in this report relate solely to the item submitted for analysis. Any opinions/interpretations expressed on this report are given independent of the laboratory's scope of accreditation. All results are reported on an "As Received" basis unless otherwise stated. PPB Analytical Inc. is responsible for all the information provided in the report, except when information is provided by the customer (marked as #). Reports shall not be reproduced except in full without written permission of PPB Analytical Inc. all work done in accordance with PPB Analytical Inc. Terms and Conditions. For further details about the performing labs, please contact customer service at PPB Analytical Inc.

Signature:

Cheuk Kuen (Isaac) Lai

Title:

Quality Assurance Manager

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