**PharmLabs San Diego** Certificate of Analysis

Sample **Diablo - Fire OG**

| Delta9 THC **0.09%** | THCa **ND** | Total THC (THCa * 0.877 + THC) **0.09%** | Delta8 THC **1.18%** |
|---|---|---|---|

| | |
|---|---|
| Sample ID **SD241102-017 (101877)** | Matrix **Concentrate** |
| Tested for **Chapo Extrax** | |
| Sampled - Received **Nov 01, 2024** | Reported **Nov 07, 2024** |
| Analyses executed **RES, MIBIG, MICX, MTO, PES, HME, FVI, D9C** | |

Summary D9C: **The total Δ9-THC content in this sample is 0.09%. For the most accurate Δ9-THC concentration, refer to the GC MS/MS section of this COA.**This sample was tested using HPLC and GC MS/MS. HPLC analysis can yield inconsistent results for **Δ8-THC** and **Δ9-THC** due to isomer interference: GC MS/MS was employed to avoid this issue. Please note, if**THCa** is present, the **Δ9-THC** level measured by GC MS/MS might be higher due to decarboxylation.

## D9C - D9 Confirmation Analysis

Analyzed **Oct 31, 2024** | Instrument **GC MS/MS** | Method **SOP-041 D9C**
The expanded Uncertainty of the analysis is approximately **±7.806**% at the 95% Confidence Level

| Analyte | LOD ppb | LOQ ppb | Result % | Result mg/g |
|---|---|---|---|---|
| Δ9-Tetrahydrocannabinol (Δ9-THC) | 1.462 | 4.432 | 0.09 | 0.88 |
| **Total Cannabinoids Analyzed** | - | - | 0.09 | 0.88 |

## CANx - Cannabinoids Analysis

Analyzed **Nov 05, 2024** | Instrument **HPLC-VWD** | Method **SOP-001**
The expanded Uncertainty of the Cannabinoid analysis is approximately **±7.806**% at the 95% Confidence Level

| Analyte | LOD mg/g | LOQ mg/g | Result % | Result mg/g |
|---|---|---|---|---|
| 11-Hydroxy-Δ8-Tetrahydrocannabivarin (11-Hyd-Δ8-THCV) | 0.013 | 0.041 | ND | ND |
| Cannabidiorcin (CBDO) | 0.002 | 0.007 | ND | ND |
| Abnormal Cannabidiorcin (a-CBDO) | 0.01 | 0.031 | ND | ND |
| (+/-)-9B-hydroxy-Hexahydrocannibinol (9b-HHC) | 0.012 | 0.036 | ND | ND |
| 11-Hydroxy-Δ8-Tetrahydrocannabinol (11-Hyd-Δ8-THC) | 0.007 | 0.021 | ND | ND |
| Cannabidiolic Acid (CBDA) | 0.001 | 0.16 | 0.36 | 3.62 |
| Cannabigerol Acid (CBGA) | 0.001 | 0.16 | ND | ND |
| Cannabigerol (CBG) | 0.001 | 0.16 | ND | ND |
| Cannabidiol (CBD) | 0.001 | 0.16 | ND | ND |
| 1(S)-Tetrahydrocannabidiol (1(S)-H4-CBD) | 0.013 | 0.041 | ND | ND |
| 1(R)-Tetrahydrocannabidiol (1(R)-H4-CBD) | 0.025 | 0.075 | ND | ND |
| Tetrahydrocannabivarin (THCV) | 0.001 | 0.16 | ND | ND |
| Δ8-tetrahydrocannabivarin (Δ8-THCV) | 0.021 | 0.064 | ND | ND |
| Cannabidihexol (CBDH) | 0.005 | 0.16 | ND | ND |
| Tetrahydrocannabutol (Δ9-THCB) | 0.013 | 0.038 | ND | ND |
| Cannabinol (CBN) | 0.001 | 0.16 | 0.13 | 1.34 |
| Cannabidiphorol (CBDP) | 0.015 | 0.047 | ND | ND |
| exo-THC (exo-THC) | 0.005 | 0.16 | ND | ND |
| Tetrahydrocannabinol (Δ9-THC) | 0.003 | 0.16 | 1.03 | 10.33 |
| Δ8-tetrahydrocannabinol (Δ8-THC) | 0.004 | 0.16 | 1.18 | 11.83 |
| (6aR,9S)-Δ10-Tetrahydrocannabinol ((6aR,9S)-Δ10) | 0.126 | 0.42 | ND | ND |
| Hexahydrocannabinol (S Isomer) (9s-HHC) | 0.017 | 0.16 | 11.39 | 113.89 |
| (6aR,9R)-Δ10-Tetrahydrocannabinol ((6aR,9R)-Δ10) | 0.118 | 0.39 | ND | ND |
| Hexahydrocannabinol (R Isomer) (9r-HHC) | 0.016 | 0.16 | 42.81 | 428.13 |
| Tetrahydrocannabinolic Acid (THCA) | 0.001 | 0.16 | ND | ND |
| Δ9-Tetrahydrocannabihexol (Δ9-THCH) | 0.024 | 0.071 | ND | ND |
| Cannabinol Acetate (CBNO) | 0.014 | 0.043 | ND | ND |
| Δ9-Tetrahydrocannabiphorol (Δ9-THCP) | 0.017 | 0.16 | 24.02 | 240.16 |
| Δ8-Tetrahydrocannabiphorol (Δ8-THCP) | 0.041 | 0.16 | 0.39 | 3.91 |
| Cannabicitran (CBT) | 0.005 | 0.16 | 0.28 | 2.83 |
| Δ8-THC-O-acetate (Δ8-THCO) | 0.076 | 0.16 | ND | ND |
| 9(S)-HHCP (s-HHCP) | 0.031 | 0.094 | ND | ND |
| Δ9-THC-O-acetate (Δ9-THCO) | 0.066 | 0.16 | ND | ND |
| 9(R)-HHCP (r-HHCP) | 0.026 | 0.079 | ND | ND |
| 9(S)-HHC-O-acetate (s-HHCO) | 0.005 | 0.16 | ND | ND |
| 9(R)-HHC-O-acetate (r-HHCO) | 0.008 | 0.025 | ND | ND |
| 3-octyl-Δ8-Tetrahydrocannabinol (Δ8-THC-C8) | 0.067 | 0.204 | ND | ND |
| **Total THC** ( THCa * 0.877 + Δ9THC ) | | | 1.03 | 10.33 |
| **Total THC + Δ8THC + Δ10THC** ( THCa * 0.877 + Δ9THC + Δ8THC + Δ10THC ) | | | 2.22 | 22.16 |
| **Total CBD** ( CBDa * 0.877 + CBD ) | | | 0.32 | 3.17 |
| **Total CBG** ( CBGa * 0.877 + CBG ) | | | ND | ND |
| **Total HHC** ( 9r-HHC + 9s-HHC ) | | | 54.20 | 542.02 |
| **Total Cannabinoids Analyzed** | | | 81.56 | 815.59 |

**UI** Unidentified
**ND** Not Detected
**N/A** Not Applicable
**NT** Not Reported
**LOD** Limit of Detection
**LOQ** Limit of Quantification
**<LOQ** Detected
**>ULOL** Above upper limit of linearity
**CFU/g** Colony Forming Units per 1 gram
**TNTC** Too Numerous to Count

PJLA Testing Acc. #85368

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DEA license: RP0611043
ISO/IEC 17025:2017 Acc. L17-427-1

Scan the QR code to verify authenticity.

Authorized Signature

Brandon Starr, Quality Assurance Manager
Thu, 07 Nov 2024 11:20:52 -0800

QA Testing

## HME - Heavy Metals Analysis

Analyzed **Nov 05, 2024** | Instrument **ICP/MSMS** | Method **SOP-005**

| Analyte | LOD ug/g | LOQ ug/g | Result ug/g | Limit ug/g |
|---|---|---|---|---|
| Arsenic (As) | 0.0009 | 0.0027 | ND | 1.5 |
| Cadmium (Cd) | 0.0005 | 0.0015 | ND | 0.5 |
| Mercury (Hg) | 0.0058 | 0.0174 | 0.01 | 3 |
| Lead (Pb) | 0.0006 | 0.0018 | 0.00 | 0.5 |

## MIBIG - Microbial Analysis

Analyzed **Nov 06, 2024** | Instrument **qPCR and/or Plating** | Method **SOP-007**

| Analyte | LOD | LOQ | Result CFU/g | Limit | Analyte | LOD | LOQ | Result CFU/g | Limit |
|---|---|---|---|---|---|---|---|---|---|
| Shiga toxin-producing Escherichia Coli | | | ND | ND per 1 gram | Salmonella spp. | | | ND | ND per 1 gram |
| Aspergillus fumigatus | | | ND | ND per 1 gram | Aspergillus flavus | | | ND | ND per 1 gram |
| Aspergillus niger | | | ND | ND per 1 gram | Aspergillus terreus | | | ND | ND per 1 gram |

## MTO - Mycotoxin Analysis

Analyzed **Nov 05, 2024** | Instrument **LC/MSMS** | Method **SOP-004**

| Analyte | LOD ug/kg | LOQ ug/kg | Result ug/kg (ppb) | Limit ug/kg | Analyte | LOD ug/kg | LOQ ug/kg | Result ug/kg (ppb) | Limit ug/kg |
|---|---|---|---|---|---|---|---|---|---|
| Ochratoxin A | 5.0 | 20.0 | ND | 20 | Aflatoxin B1 | 2.5 | 5.0 | ND | - |
| Aflatoxin B2 | 2.5 | 5.0 | ND | - | Aflatoxin G1 | 2.5 | 5.0 | ND | - |
| Aflatoxin G2 | 2.5 | 5.0 | ND | - | Total Aflatoxins | 10.0 | 20.0 | ND | 20 |

**UI** Unidentified
**ND** Not Detected
**N/A** Not Applicable
**NT** Not Reported
**LOD** Limit of Detection
**LOQ** Limit of Quantification
**<LOQ** Detected
**>ULOL** Above upper limit of linearity
**CFU/g** Colony Forming Units per 1 gram
**TNTC** Too Numerous to Count

PJLA Testing
Acc. #85368

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ISO/IEC 17025:2017 Acc. L17-427-1

Scan the QR code to verify authenticity.

Authorized Signature

Brandon Starr

Brandon Starr, Quality Assurance Manager
Thu, 07 Nov 2024 11:20:52 -0800



PharmWare CANNABIS LABORATORY LIMS & ELN

## PES - Pesticides Analysis

Analyzed **Nov 07, 2024** | Instrument **LC/MSMS GC/MSMS** | Method **SOP-003**

| CAPPELLE | LOD ug/g | LOQ ug/g | Result ug/g | Limit ug/g | Analyte | LOD ug/g | LOQ ug/g | Result ug/g | Limit ug/g |
|---|---|---|---|---|---|---|---|---|---|
| Aldicarb | 0.01 | 0.02 | ND | 0 | Carbofuran | 0.01 | 0.02 | ND | 0 |
| Dimethoate | 0.01 | 0.02 | ND | 0 | Etofenprox | 0.02 | 0.1 | ND | 0 |
| Fenoxycarb | 0.01 | 0.02 | ND | 0 | Thiachloprid | 0.01 | 0.02 | ND | 0 |
| Daminozide | 0.01 | 0.03 | ND | 0 | Dichlorvos | 0.02 | 0.07 | ND | 0 |
| Imazalil | 0.02 | 0.07 | ND | 0 | Methiocarb | 0.01 | 0.02 | ND | 0 |
| Spiroxamine | 0.01 | 0.02 | ND | 0 | Coumaphos | 0.01 | 0.02 | ND | 0 |
| Fipronil | 0.01 | 0.1 | ND | 0 | Paclobutrazol | 0.01 | 0.03 | ND | 0 |
| Chlorpyrifos | 0.01 | 0.04 | ND | 0 | Ethoprophos (Prophos) | 0.01 | 0.02 | ND | 0 |
| Baygon (Propoxur) | 0.01 | 0.02 | ND | 0 | Chlordane | 0.04 | 0.1 | ND | 0 |
| Chlorfenapyr | 0.03 | 0.1 | ND | 0 | Methyl Parathion | 0.02 | 0.1 | ND | 0 |
| Mevinphos | 0.03 | 0.08 | ND | 0 | Abamectin | 0.03 | 0.08 | ND | 0.1 |
| Acephate | 0.02 | 0.05 | ND | 0.1 | Acetamiprid | 0.01 | 0.05 | ND | 0.1 |
| Azoxystrobin | 0.01 | 0.02 | ND | 0.1 | Bifenazate | 0.01 | 0.05 | ND | 0.1 |
| Bifenthrin | 0.02 | 0.35 | ND | 3 | Boscalid | 0.01 | 0.03 | ND | 0.1 |
| Carbaryl | 0.01 | 0.02 | ND | 0.5 | Chlorantraniliprole | 0.01 | 0.04 | ND | 10 |
| Clofentezine | 0.01 | 0.03 | ND | 0.1 | Diazinon | 0.01 | 0.02 | ND | 0.1 |
| Dimethomorph | 0.02 | 0.06 | ND | 2 | Etoxazole | 0.01 | 0.05 | ND | 0.1 |
| Fenpyroximate | 0.02 | 0.1 | ND | 0.1 | Flonicamid | 0.01 | 0.02 | ND | 0.1 |
| Fludioxonil | 0.01 | 0.05 | ND | 0.1 | Hexythiazox | 0.01 | 0.03 | ND | 0.1 |
| Imidacloprid | 0.01 | 0.05 | ND | 5 | Kresoxim-methyl | 0.01 | 0.03 | ND | 0.1 |
| Malathion | 0.01 | 0.05 | ND | 0.5 | Metalaxyl | 0.01 | 0.02 | ND | 2 |
| Methomyl | 0.02 | 0.05 | ND | 1 | Myclobutanil | 0.02 | 0.07 | ND | 0.1 |
| Naled | 0.01 | 0.02 | ND | 0.1 | Oxamyl | 0.01 | 0.02 | ND | 0.5 |
| Permethrin | 0.01 | 0.02 | ND | 0.5 | Phosmet | 0.01 | 0.02 | ND | 0.1 |
| Piperonyl Butoxide | 0.02 | 0.06 | ND | 3 | Propiconazole | 0.03 | 0.08 | ND | 0.1 |
| Prallethrin | 0.02 | 0.05 | ND | 0.1 | Pyrethrin | 0.05 | 0.41 | ND | 0.5 |
| Pyridaben | 0.02 | 0.07 | ND | 0.1 | Spinosad A | 0.01 | 0.05 | ND | 0.1 |
| Spinosad D | 0.01 | 0.05 | ND | 0.1 | Spiromesifen | 0.02 | 0.06 | ND | 0.1 |
| Spirotetramat | 0.01 | 0.02 | ND | 0.1 | Tebuconazole | 0.01 | 0.02 | ND | 0.1 |
| Thiamethoxam | 0.01 | 0.02 | ND | 5 | Trifloxystrobin | 0.01 | 0.02 | ND | 0.1 |
| Acequinocyl | 0.02 | 0.09 | ND | 0.1 | Captan | 0.01 | 0.02 | ND | 0.7 |
| Cypermethrin | 0.02 | 0.1 | ND | 1 | Cyfluthrin | 0.04 | 0.1 | ND | 2 |
| Fenhexamid | 0.02 | 0.07 | ND | 0.1 | Spinetoram J,L | 0.02 | 0.07 | ND | 0.1 |
| Pentachloronitrobenzene | 0.01 | 0.1 | ND | 0.1 | | | | | |

## RES - Residual Solvents Analysis

Analyzed **Nov 05, 2024** | Instrument **GC/FID with Headspace Analyzer** | Method **SOP-006**

| Analyte | LOD ug/g | LOQ ug/g | Result ug/g | Limit ug/g | Analyte | LOD ug/g | LOQ ug/g | Result ug/g | Limit ug/g |
|---|---|---|---|---|---|---|---|---|---|
| Propane (Prop) | 1.16 | 3.868 | ND | 5000 | Butane (But) | 1.16 | 3.868 | ND | 5000 |
| Methanol (Metha) | 1.16 | 3.868 | <LOQ | 3000 | Ethylene Oxide (EthOx) | 1.16 | 3.868 | ND | 1 |
| Pentane (Pen) | 1.16 | 3.868 | ND | 5000 | Ethanol (Ethan) | 1.16 | 3.868 | 60.4 | 5000 |
| Ethyl Ether (EthEt) | 1.16 | 3.868 | ND | 5000 | Acetone (Acet) | 1.16 | 3.868 | 49.4 | 5000 |
| Isopropanol (2-Pro) | 1.16 | 3.868 | 53.7 | 5000 | Acetonitrile (Acetonit) | 1.16 | 3.868 | <LOQ | 410 |
| Methylene Chloride (MetCh) | 1.16 | 3.868 | ND | 1 | Hexane (Hex) | 1.16 | 3.868 | ND | 290 |
| Ethyl Acetate (EthAc) | 1.16 | 3.868 | ND | 5000 | Chloroform (Clo) | 1.16 | 3.868 | ND | 1 |
| Benzene (Ben) | 1.16 | 3.868 | ND | 1 | 1-2-Dichloroethane (12-Dich) | 1.16 | 3.868 | ND | 1 |
| Heptane (Hep) | 1.16 | 3.868 | <LOQ | 5000 | Trichloroethylene (TriClEth) | 1.16 | 3.868 | ND | 1 |
| Toluene (Toluene) | 1.16 | 3.868 | <LOQ | 890 | Xylenes (Xyl) | 1.16 | 3.868 | ND | 2170 |

## FVI - Filth & Foreign Material Inspection Analysis

Analyzed **Nov 06, 2024** | Instrument **Microscope** | Method **SOP-010**

| Analyte / Limit | Result | Analyte / Limit | Result |
|---|---|---|---|
| > 1/4 of the total sample area covered by sand, soil, cinders, or dirt | ND | > 1/4 of the total sample area covered by mold | ND |
| > 1 insect fragment, 1 hair, or 1 count mammalian excreta per 3g | ND | > 1/4 of the total sample area covered by an imbedded foreign material | ND |

## MICx - Microbial X Analysis

Analyzed **Nov 06, 2024** | Instrument **Plating** | Method **SOP-007**

| Analyte | LOD CFU/G | LOQ CFU/G | Result CFU/G |
|---|---|---|---|
| Total Yeast & Molds (TYM) | | | ND |
| Listeria (LIS) | | | ND |
| Gram Negative Bacteria (BTGN) | | | ND |
| Total Viable Aerobic Bacteria (TVAB) | | | ND |

**UI** Unidentified
**ND** Not Detected
**N/A** Not Applicable
**NT** Not Reported
**LOD** Limit of Detection
**LOQ** Limit of Quantification
**<LOQ** Detected
**>ULOL** Above upper limit of linearity
**CFU/g** Colony Forming Units per 1 gram
**TNTC** Too Numerous to Count

PJLA Testing Acc. #85368

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Authorized Signature

Brandon Starr

Brandon Starr, Quality Assurance Manager
Thu, 07 Nov 2024 11:20:52 -0800



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