**PharmLabs San Diego** Certificate of Analysis

SDPharmLabs

Sample **King Size Pre-Roll - THCP - Hash Hole - Astroid Haze**

| Delta9 THC | THCa | Total THC (THCa * 0.877 + THC) | Delta8 THC |
|---|---|---|---|
| 0.21% | ND | 0.21% | 18.66% |

Sample ID SD210319-116 (103899) | Matrix **Flower** | Batch ID/Lot ID 143961
Tested for Viva La Hemp
Sampled - | Received Mar 21, 2025 | Reported Mar 28, 2025
Analyses executed **CAN+, MWA, D9C**

Summary D9C: **The total Δ9-THC content in this sample is 0.21%. 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

Analyzed **Mar 25, 2025** | Instrument **GC MS/MS** | Method **SOP-041 D9C**
The expanded Uncertainty of the D9 Confirmation 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 | 0.21 | 2.10 |
| **Total Cannabinoids Analyzed** | - | - | 0.21 | 2.10 |

## * CAN+ - Cannabinoids

Analyzed **Mar 20, 2025** | Instrument **HPLC-VWD** | Method **SOP-001**
The expanded Uncertainty of the Cannabinoids analysis is approximately **±7.81%** at the 95% Confidence Level

| Analyte | LOD mg/g | LOQ mg/g | Result % | Result mg/g |
|---|---|---|---|---|
| Cannabidivarin (CBDV) | 0.039 | 0.16 | ND | ND |
| Cannabidibutol (CBDb) | 0.011 | 0.03 | ND | ND |
| Cannabidiolic Acid (CBDA) | 0.033 | 0.16 | 0.37 | 3.66 |
| Cannabigerol Acid (CBGA) | 0.033 | 0.16 | 3.51 | 35.09 |
| Cannabigerol (CBG) | 0.048 | 0.16 | 2.70 | 26.97 |
| Cannabidiol (CBD) | 0.069 | 0.229 | 0.38 | 3.81 |
| Tetrahydrocannabivarin (THCV) | 0.049 | 0.162 | ND | ND |
| Cannabinol (CBN) | 0.047 | 0.16 | 0.20 | 2.04 |
| Tetrahydrocannabinol (Δ9-THC) | 0.092 | 0.307 | D9C | D9C |
| Δ8-tetrahydrocannabinol (Δ8-THC) | 0.044 | 0.16 | 19.04 | 190.42 |
| Cannabicyclol (CBL) | 0.0012 | 0.16 | ND | ND |
| Cannabichromene (CBC) | 0.002 | 0.16 | 0.30 | 2.99 |
| Tetrahydrocannabinolic Acid (THCA) | 0.117 | 0.389 | ND | ND |
| **Total THC** ( THCa * 0.877 + Δ9THC ) | | | ND | ND |
| **Total THC + Δ8THC** ( THCa * 0.877 + Δ9THC + Δ8THC ) | | | 19.04 | 190.42 |
| **Total CBD** ( CBDa * 0.877 + CBD ) | | | 0.70 | 7.02 |
| **Total CBG** ( CBGa * 0.877 + CBG ) | | | 5.77 | 57.74 |
| **Total Cannabinoids Analyzed** | | | 26.02 | 260.21 |

Sample photography

*Dry Weight %

## MWA - Moisture Content & Water Activity

Analyzed **Mar 20, 2025** | Instrument **Chilled-mirror Dewpoint and Capacitance** | Method **SOP-008**

| Analyte | LOD % | LOQ % | Result | Limit | Analyte | LOD % | LOQ % | Result | Limit |
|---|---|---|---|---|---|---|---|---|---|
| Moisture (Moi) | 0.0 | 0.0 | 8.3 % Mw | 13 % Mw | Water Activity (WA) | 0.03 | 0.03 | 0.58 $a_w$ | 0.85 $a_w$ |

**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

DCC license: C8-0000098-LIC
DEA license: RP0611043
ISO/IEC 17025:2017 Acc. 85368

Authorized Signature

Brandon Starr

Brandon Starr, Quality Assurance Manager
Tue, 25 Mar 2025 13:39:40 -0700



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## MIBIG - Microbial

Analyzed **Feb 24, 2025** | Instrument **qPCR and/or Plating** | Method **SOP-007**

| Analyte | LOD CFU/g | LOQ CFU/g | Result CFU/g | Limit CFU/g |
|---|---|---|---|---|
| Shiga toxin-producing Escherichia Coli | 1.0 | 1.0 | ND | 1 |
| Salmonella spp. | 1.0 | 1.0 | ND | 1 |
| Aspergillus fumigatus | 1.0 | 1.0 | ND | 1 |
| Aspergillus flavus | 1.0 | 1.0 | ND | 1 |
| Aspergillus niger | 1.0 | 1.0 | ND | 1 |
| Aspergillus terreus | 1.0 | 1.0 | ND | 1 |

## MTO - Mycotoxin

Analyzed **Feb 27, 2025** | Instrument **LC/MSMS** | Method **SOP-004**

| Analyte | LOD ug/kg | LOQ ug/kg | Result ug/kg | Limit ug/kg | Analyte | LOD ug/kg | LOQ ug/kg | Result ug/kg | 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

DCC license: C8-0000098-LIC
**DEA license:** RP0611043
**ISO/IEC 17025:2017 Acc. 85368**

**Authorized Signature**

Brandon Starr

**Brandon Starr, Quality Assurance Manager**
**Thu, 06 Mar 2025 15:39:46 -0800**



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## PES - Pesticides

Analyzed **Feb 26, 2025** | Instrument **LC/MSMS GC/MSMS** | Method **SOP-003**

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

## RES - Residual Solvents

Analyzed **Feb 25, 2025** | 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) | 0.044 | 0.4 | ND | 5000 | Butane (But) | 0.02 | 0.4 | ND | 5000 |
| Methanol (Metha) | 1.176 | 3.92 | <LOQ | 3000 | Ethylene Oxide (EthOx) | 0.08 | 0.4 | ND | 1 |
| Pentane (Pen) | 0.024 | 0.4 | ND | 5000 | Ethanol (Ethan) | 0.048 | 0.4 | 69.0 | 5000 |
| Ethyl Ether (EthEt) | 0.036 | 0.4 | ND | 5000 | Acetone (Acet) | 0.044 | 0.4 | 46.5 | 5000 |
| Isopropanol (2-Pro) | 1.16 | 3.868 | <LOQ | 5000 | Acetonitrile (Acetonit) | 0.888 | 2.952 | <LOQ | 410 |
| Methylene Chloride (MetCh) | 0.04 | 0.4 | ND | 1 | Hexane (Hex) | 0.012 | 0.4 | 49.3 | 290 |
| Ethyl Acetate (EthAc) | 0.032 | 0.4 | 146.6 | 5000 | Chloroform (Clo) | 0.028 | 0.4 | ND | 1 |
| Benzene (Ben) | 0.012 | 0.4 | ND | 1 | 1-2-Dichloroethane (12-Dich) | 0.024 | 0.4 | ND | 1 |
| Heptane (Hep) | 0.012 | 0.4 | ND | 5000 | Trichloroethylene (TriClEth) | 0.072 | 0.4 | ND | 1 |
| Toluene | 0.036 | 0.4 | ND | 890 | Xylenes (Xyl) | 0.012 | 0.4 | ND | 2170 |

## FVI - Filth & Foreign Material Inspection

Analyzed **Feb 24, 2025** | 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 |

## MWA - Moisture Content & Water Activity

Analyzed **Feb 26, 2025** | Instrument **Chilled-mirror Dewpoint and Capacitance** | Method **SOP-008**

| Analyte | LOD % | LOQ % | Result | Limit | Analyte | LOD % | LOQ % | Result | Limit |
|---|---|---|---|---|---|---|---|---|---|
| Moisture (Moi) | 0.0 | 0.0 | 11.3 % Mw | 13 % Mw | Water Activity (WA) | 0.03 | 0.03 | 0.67 $a_w$ | 0.85 $a_w$ |

**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

DCC license: C8-0000098-LIC
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ISO/IEC 17025:2017 Acc. 85368

Authorized Signature

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Brandon Starr, Quality Assurance Manager
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