#### PharmLabs San Diego Certificate of Analysis

3421 Hancock St, Second Floor, San Diego, CA 92110 | License: C8-0000098-LIC ISO/IEC 17025:2017 Certification L17-427-1 | Accreditation #85368



#### Sample Live Resin - Ghost Train Haze

| Sample ID SD230118-059 (6004 | 47)                          | Matrix Concentrate (Inhalable Cannabis Good) |
|------------------------------|------------------------------|--|
| Tested for Ghost             |                              |  |
| Sampled -                    | Received Jan 17, 2023        | Reported Jan 23, 2023                        |
| Angluses executed CANX, RES  | S. MIBIG. MTO. PES. HME. FVI |  |

Laboratory note: The estimated concentration of the unknown peak in the sample is 8.17% | Currently PharmLabs laboratory can not confirm an unidentified peak in your chromatogram due to interference (only with highly concentrated D8 products) from which we believe to be either (+)d8-THC or 49-THC. At this time there are no reference standards available for (+)d8-THC is a different compound from the main (-)d8-THC cannobinoid and, therefore, these two compounds may have different efficacies. Using the most advanced instruments and techniques available, the separation of (+)d8-THC and d9-THC is problematic for the scientific community as a whole. PharmLabs believes the unidentified peak to be a combination of (+)d8-THC with the majority, if not all, of the concentration being (+)d8-THC. Total (+/-) D8 Concentration is estimated to be 60.75%.

#### CANX - Cannabinoids Analysis

Analyzed Jan 23, 2023 | Instrument HLPC Measurement Uncertainty at 95% confidence7.806%

| Analyte   | LOD<br>mg/g | LOQ<br>mg/g | Result<br>% | Result<br>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        | ND          | ND             |
| Cannabigerol Acid (CBGA)  | 0.001       | 0.16        | ND          | ND             |
| Cannabigerol (CBG)  | 0.001       | 0.16        | 0.33        | 3.31           |
| Cannabidiol (CBD)   | 0.001       | 0.16        | 1.59        | 15.90          |
| 1(S)-THD (s-THD)  | 0.013       | 0.041       | ND          | ND             |
| 1(R)-THD (r-THD)  | 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        | 0.28        | 2.79           |
| 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        | UI          | UI             |
| Δ8-tetrahydrocannabinol (Δ8-THC)  | 0.004       | 0.16        | 60.75       | 607.49         |
| (6aR,9S)-Δ10-Tetrahydrocannabinol ((6aR,9S)-Δ10)  | 0.015       | 0.16        | 1.07        | 10.68          |
| Hexahydrocannabinol (S Isomer) (9s-HHC)   | 0.017       | 0.16        | ND          | ND             |
| (6aR,9R)-Δ10-Tetrahydrocannabinol ((6aR,9R)-Δ10)  | 0.007       | 0.16        | 16.12       | 161.21         |
| Hexahydrocannabinol (R Isomer) (9r-HHC)   | 0.016       | 0.16        | ND          | ND             |
| 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             |
| $\Delta$ 9-Tetrahydrocannabiphorol ( $\Delta$ 9-THCP)   | 0.017       | 0.16        | 3.90        | 39.00          |
| Δ8-Tetrahydrocannabiphorol (Δ8-THCP)  | 0.041       | 0.16        | ND          | ND             |
| Cannabicitran (CBT)   | 0.005       | 0.16        | ND          | ND             |
| Δ8-THC-O-acetate (Δ8-THCO)  | 0.076       | 0.16        | ND          | ND             |
| 9(S)-HHCP (s-HHCP)  | 0.031       | 0.094       | ND          | ND             |
| $\Delta$ 9-THC-O-acetate ( $\Delta$ 9-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             |
| 3-octyl- $\Delta$ 8-Tetrahydrocannabinol ( $\Delta$ 8-THC-C8)   | 0.067       | 0.204       | ND          | ND             |
| Total THC ( THCa * 0.877 + <b>∆</b> 9THC )  |             |             | ND          | ND             |
| Total THC + $\Delta$ 8THC + $\Delta$ 10THC ( THCa $^{\circ}$ 0.877 + $\Delta$ 9THC + $\Delta$ 8THC + $\Delta$ 10THC ) |             |             | 77.94       | 779.37         |
| Total CBD ( CBDa * 0.877 + CBD )  |             |             | 1.59        | 15.90          |
| Total CBG ( CBGa * 0.877 + CBG )  |             |             | 0.33        | 3.31           |
| Total HHC (9r-HHC + 9s-HHC)   |             |             | ND          | ND             |
| Total Cannabinoids  |             |             | 84.04       | 840.38         |

# HME - Heavy Metals Detection Analysis

Analyzed Jan 20, 2023 | Instrument ICP/MSMS | Method SOP-005

| Analyte      | LOD<br>ug/g | LOQ<br>ug/g | Result<br>ug/g | Limit<br>ug/g | Analyte      | LOD<br>ug/g | LOQ<br>ug/g | Result<br>ug/g | Limit<br>ug/g |
|--------------|-------------|-------------|----------------|---------------|--------------|-------------|-------------|----------------|---------------|
| Arsenic (As) | 0.0002      | 0.0005      | 0.03           | 0.2           | Cadmium (Cd) | 3.0e-05     | 0.0005      | 0.00           | 0.2           |
| Mercury (Hg) | 1.0e-05     | 0.0001      | 0.02           | 0.1           | Lead (Pb)    | 1.0e-05     | 0.00125     | 0.07           | 0.5           |

UI Not Identified
ND Not Detected
N/A Not Applicable
NT Not Reported
LOD Limit of Detection
LOQ Limit of Quantification
<LOQ Detected
JULQL Above upper limit of linearity
CFU/g Colonyl porming Units per 1 gram
TNTC Too Numerous to Count









Authorized Signature

Brandon Starr





## MIBIG - Microbial Testing Analysis

Analyzed Jan 20, 2023 | Instrument qPCR and/or Plating | Method SOP-007

| Analyte                                | Result<br>CFU/g | Limit         | Analyte             | Result<br>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 |
| Asperaillus niger                      | ND              | ND per 1 gram | Asperaillus terreus | ND              | ND per 1 gram |

## MTO - Mycotoxin Testing Analysis

Analyzed Jan 20, 2023 | Instrument LC/MSMS | Method SOP-004

| Analyte      | LOD<br>ug/kg | LOQ<br>ug/kg | Result<br>ug/kg (ppb) | Limit<br>ug/kg | Analyte          | LOD<br>ug/kg | LOQ<br>ug/kg | Result<br>ug/kg (ppb) | Limit<br>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 Not Identified
ND Not Detected
N/A Not Applicable
NT Not Reported
LOD Limit of Detection
LOQ Limit of Quantification
4.0Q Detected
- ULQ.D. Above upper limit of linearity
- CFU/g Colony forming Units per 1 gram
TNTC Too Numerous to Count









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Brandon Starr

Brandon Starr, Lab Manager Mon, 23 Jan 2023 11:33:35 -0800

## PES - Pesticides Screening Analysis

Analyzed Jan 20, 2023 | Instrument LC/MSMS GC/MSMS | Method SOP-003

| Analyte                 | LOD<br>ug/g | LOQ<br>ug/g | Result<br>ug/g | Limit<br>ug/g | Analyte               | LOD<br>ug/g | LOQ<br>ug/g | Result<br>ug/g | Limit<br>ug/g |
|-------------------------|-------------|-------------|----------------|---------------|-----------------------|-------------|-------------|----------------|---------------|
| Aldicarb                | 0.0078      | 0.02        | ND             | 0.0078        | Carbofuran            | 0.01        | 0.02        | ND             | 0.01          |
| Dimethoate              | 0.01        | 0.02        | ND             | 0.01          | Etofenprox            | 0.02        | 0.1         | ND             | 0.02          |
| Fenoxycarb              | 0.01        | 0.02        | ND             | 0.01          | Thiachloprid          | 0.01        | 0.02        | ND             | 0.01          |
| Daminozide              | 0.01        | 0.03        | ND             | 0.01          | Dichlorvos            | 0.02        | 0.07        | ND             | 0.02          |
| Imazalil                | 0.02        | 0.07        | ND             | 0.02          | Methiocarb            | 0.01        | 0.02        | ND             | 0.01          |
| Spiroxamine             | 0.01        | 0.02        | ND             | 0.01          | Coumaphos             | 0.01        | 0.02        | ND             | 0.01          |
| Fipronil                | 0.01        | 0.1         | ND             | 0.01          | Paclobutrazol         | 0.01        | 0.03        | ND             | 0.01          |
| Chlorpyrifos            | 0.01        | 0.04        | ND             | 0.01          | Ethoprophos (Prophos) | 0.01        | 0.02        | ND             | 0.01          |
| Baygon (Propoxur)       | 0.01        | 0.02        | ND             | 0.01          | Chlordane             | 0.04        | 0.1         | ND             | 0.04          |
| Chlorfenapyr            | 0.03        | 0.1         | ND             | 0.03          | Methyl Parathion      | 0.02        | 0.1         | ND             | 0.02          |
| Mevinphos               | 0.03        | 0.08        | ND             | 0.03          | 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 Testing Analysis**

Analyzed Jan 19, 2023 | Instrument GC/FID with Headspace Analyzer | Method SOP-006

| Analyte                    | LOD<br>ug/g | LOQ<br>ug/g | Result<br>ug/g   | Limit<br>ug/g | Analyte                      | LOD<br>ug/g | LOQ<br>ug/g | Result<br>ug/g                     | Limit<br>ug/g |
|----------------------------|-------------|-------------|--|---------------|------------------------------|-------------|-------------|------------------------------------|---------------|
| Propane (Prop)             | 0.4         | 40.0        | ND   | 5000.0        | Butane (But)                 | 0.4         | 40.0        | ND                                 | 5000.0        |
| Methanol (Metha)           | 0.4         | 40.0        | ND   | 3000.0        | Ethylene Oxide (EthOx)       | 0.4         | 0.8         | ND                                 | 1.0           |
| Pentane (Pen)              | 0.4         | 40.0        | ND   | 5000.0        | Ethanol (Ethan)              | 0.4         | 40.0        | ND                                 | 5000.0        |
| Ethyl Ether (EthEt)        | 0.4         | 40.0        | ND   | 5000.0        | Acetone (Acet)               | 0.4         | 40.0        | <loq< td=""><td>5000.0</td></loq<> | 5000.0        |
| Isopropanol (2-Pro)        | 0.4         | 40.0        | <loq< td=""><td>5000.0</td><td>Acetonitrile (Acetonit)</td><td>0.4</td><td>40.0</td><td>ND</td><td>410.0</td></loq<> | 5000.0        | Acetonitrile (Acetonit)      | 0.4         | 40.0        | ND                                 | 410.0         |
| Methylene Chloride (MetCh) | 0.4         | 0.8         | ND   | 1.0           | Hexane (Hex)                 | 0.4         | 40.0        | ND                                 | 290.0         |
| Ethyl Acetate (EthAc)      | 0.4         | 40.0        | ND   | 5000.0        | Chloroform (Clo)             | 0.4         | 0.8         | ND                                 | 1.0           |
| Benzene (Ben)              | 0.4         | 0.8         | ND   | 1.0           | 1-2-Dichloroethane (12-Dich) | 0.4         | 0.8         | ND                                 | 1.0           |
| Heptane (Hep)              | 0.4         | 40.0        | ND   | 5000.0        | Trichloroethylene (TriClEth) | 0.4         | 0.8         | ND                                 | 1.0           |
| Toluene (Toluene)          | 0.4         | 40.0        | ND   | 890.0         | Xylenes (Xyl)                | 0.4         | 40.0        | ND                                 | 2170.0        |

## FVI - Filth & Foreign Material Inspection Analysis

Analyzed Jan 18, 2023 | Instrument Microscope | Method SOP-010

| Analyte / Limit   | Result | Analyte / Limit   | Result |
|---|--------|---|--------|
| > 1/4 of the total sample area<br>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 3q          | ND     | > 1/4 of the total sample area<br>covered by an imbedded foreign material | ND     |

UI Not Identified
ND Not Detected
N/A Not Applicable
NT Not Reported
LOD Limit of Detection
LOQ Limit of Operation
LOQ Detected
SULOL Above upper limit of linearity
CFU/g Colony Forming Units per 1 gram
TNTC Too Numerous to Count









Branden Starr

Brandon Starr, Lab Manager Mon, 23 Jan 2023 11:33:35 -0800

Authorized Signature

