

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 **Delta 11 - Kush Cake**

|                   |                                      |          |                                       |
|-------------------|--------------------------------------|----------|---------------------------------------|
| Sample ID         | SD230118-045 (60053)                 | Matrix   | Concentrate (Inhalable Cannabis Good) |
| Tested for        | Ghost                                |          |                                       |
| Sampled           | -                                    | Received | Jan 17, 2023                          |
| Analyses executed | CANX, RES, MIBIG, MTO, PES, HME, FVI | Reported | Jan 23, 2023                          |

**Laboratory note:** The estimated concentration of the unknown peak in the sample is 12.26%. 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 (+)- $\delta^8$ -THC or  $\delta^9$ -THC. At this time there are no reference standards available for (+)- $\delta^8$ -THC. (+)- $\delta^8$ -THC is a different compound from the main (-)- $\delta^8$ -THC cannabinoid and, therefore, these two compounds may have different efficacies. Using the most advanced instruments and techniques available, the separation of (+)- $\delta^8$ -THC and  $\delta^9$ -THC is problematic for the scientific community as a whole. PharmLabs believes the unidentified peak to be a combination of (+)- $\delta^8$ -THC and  $\delta^9$ -THC with the majority, if not all, of the concentration being (+)- $\delta^8$ -THC. Total (+/-)  $\delta^8$  Concentration is estimated to be: 85.68%

**CANX - Cannabinoids Analysis**

Analyzed Jan 23, 2023 | Instrument HPLC  
 Measurement Uncertainty at 95% confidence 7.806%

| Analyte   | LOD mg/g | LOQ mg/g | Result % | Result mg/g |
|---|----------|----------|----------|-------------|
| 11-Hydroxy- $\Delta^8$ -Tetrahydrocannabinol (11-Hyd- $\Delta^8$ -THCV)   | 0.013    | 0.041    | ND       | ND          |
| Cannabidiol (CBDO)  | 0.002    | 0.007    | ND       | ND          |
| Abnormal Cannabidiol (a-CBDO)   | 0.01     | 0.031    | ND       | ND          |
| (+/-)-9B-Hydroxy-Hexahydrocannabinol (9b-HHC)   | 0.012    | 0.036    | ND       | ND          |
| 11-Hydroxy- $\Delta^8$ -Tetrahydrocannabinol (11-Hyd- $\Delta^8$ -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     | ND       | ND          |
| Cannabidiol (CBD)   | 0.001    | 0.16     | ND       | ND          |
| (S)-THD (s-THD)   | 0.013    | 0.041    | ND       | ND          |
| (R)-THD (r-THD)   | 0.025    | 0.075    | ND       | ND          |
| Tetrahydrocannabinol (THCV)   | 0.001    | 0.16     | ND       | ND          |
| $\Delta^8$ -tetrahydrocannabinol ( $\Delta^8$ -THCV)  | 0.021    | 0.064    | ND       | ND          |
| Cannabidihexol (CBDH)   | 0.005    | 0.16     | ND       | ND          |
| Tetrahydrocannabinol ( $\Delta^9$ -THC)   | 0.013    | 0.038    | ND       | ND          |
| Cannabinol (CBN)  | 0.001    | 0.16     | ND       | ND          |
| Cannabidiphoral (CBDP)  | 0.015    | 0.047    | ND       | ND          |
| exo-THC (exo-THC)   | 0.005    | 0.16     | ND       | ND          |
| Tetrahydrocannabinol ( $\Delta^9$ -THC)   | 0.003    | 0.16     | UI       | UI          |
| $\Delta^8$ -tetrahydrocannabinol ( $\Delta^8$ -THC)   | 0.004    | 0.16     | 85.68    | 856.81      |
| (6aR,9S)- $\Delta^{10}$ -Tetrahydrocannabinol ((6aR,9S)- $\Delta^{10}$ )  | 0.015    | 0.16     | ND       | ND          |
| Hexahydrocannabinol (S Isomer) (9s-HHC)   | 0.017    | 0.16     | ND       | ND          |
| (6aR,9R)- $\Delta^{10}$ -Tetrahydrocannabinol ((6aR,9R)- $\Delta^{10}$ )  | 0.007    | 0.16     | ND       | ND          |
| Hexahydrocannabinol (R Isomer) (9r-HHC)   | 0.016    | 0.16     | ND       | ND          |
| Tetrahydrocannabinolic Acid (THCA)  | 0.001    | 0.16     | ND       | ND          |
| $\Delta^9$ -Tetrahydrocannabinol ( $\Delta^9$ -THCH)  | 0.024    | 0.071    | ND       | ND          |
| Cannabinol Acetate (CBNO)   | 0.014    | 0.043    | ND       | ND          |
| $\Delta^9$ -Tetrahydrocannabinol ( $\Delta^9$ -THCP)  | 0.017    | 0.16     | ND       | ND          |
| $\Delta^8$ -Tetrahydrocannabinol ( $\Delta^8$ -THCP)  | 0.041    | 0.16     | ND       | ND          |
| Cannabicitran (CBT)   | 0.005    | 0.16     | ND       | ND          |
| $\Delta^8$ -THC-O-acetate ( $\Delta^8$ -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     | 1.97     | 19.75       |
| 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 + $\Delta^9$ THC )   |          |          | ND       | ND          |
| Total THC + $\Delta^8$ THC + $\Delta^{10}$ THC ( THCa * 0.877 + $\Delta^9$ THC + $\Delta^8$ THC + $\Delta^{10}$ THC ) |          |          | 85.68    | 856.81      |
| Total CBD ( CBDA * 0.877 + CBD )  |          |          | ND       | ND          |
| Total CBG ( CBGa * 0.877 + CBG )  |          |          | ND       | ND          |
| Total HHC ( 9r-HHC + 9s-HHC )   |          |          | ND       | ND          |
| Total Cannabinoids  |          |          | 87.66    | 876.56      |

**HME - Heavy Metals Detection Analysis**

Analyzed Jan 19, 2023 | Instrument ICP/MSMS | Method SOP-005

| 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 |
|--------------|----------|----------|-------------|------------|--------------|----------|----------|-------------|------------|
| Arsenic (As) | 0.0002   | 0.0005   | 0.02        | 0.2        | Cadmium (Cd) | 3.0e-05  | 0.0005   | 0.00        | 0.2        |
| Mercury (Hg) | 1.0e-05  | 0.0001   | 0.01        | 0.1        | Lead (Pb)    | 1.0e-05  | 0.00125  | 0.04        | 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  
 >ULOL Above upper limit of linearity  
 CFU/g Colony Forming Units per 1 gram  
 TNTC Too Numerous to Count



Scan the QR code to verify authenticity.

Authorized Signature

*Brandon Starr*

Brandon Starr, Lab Manager  
 Mon, 23 Jan 2023 10:53:48 -0800

PharmLabs San Diego | 3421 Hancock St, Second Floor, San Diego, CA 92110 | 619.356.0898 | ISO/IEC 17025:2017 Certification L17-427-1

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MIBIG - Microbial Testing Analysis

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

| Analyte                                | Result CFU/g | Limit         | Analyte             | 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 Testing Analysis

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

| Analyte      | LOD ug/kg | LOG ug/kg | Result ug/kg (ppb) | Limit ug/kg | Analyte          | LOD ug/kg | LOG 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 Not Identified  
 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  
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PES - Pesticides Screening Analysis

Analyzed Jan 20, 2023 | 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                | 0.0078   | 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       |
| Imazail                 | 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       | Paclbutrazol          | 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               | 0.05     | 0.08     | ND          | 0.03       | Abamectin             | 0.03     | 0.08     | ND          | 0.1        |
| Acephate                | 0.02     | 0.05     | ND          | 0.1        | Acetamidrid           | 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         |
| Clofentazine            | 0.01     | 0.03     | ND          | 0.1        | Diazinon              | 0.01     | 0.02     | ND          | 0.1        |
| Dimethomorph            | 0.02     | 0.06     | ND          | 2          | Etoazole              | 0.01     | 0.05     | ND          | 0.1        |
| Fenpyroximate           | 0.02     | 0.1      | ND          | 0.1        | Fonicamid             | 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 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)             | 0.4      | 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        | 5000.0     |
| Isopropanol (2-Pro)        | 0.4      | 40.0     | ND          | 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 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     |

UI Not Identified  
 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  
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