

PharmLabs San Diego Certificate of Analysis



Sample Sumo Dispo Compliant 5g - Purple Churros

| | | | |
|---------------|---------|-----------------------------------|-------------------|
| Delta9 THC ND | THCa ND | Total THC (THCa * 0.877 + THC) ND | Delta8 THC 67.09% |
|---------------|---------|-----------------------------------|-------------------|

| | | |
|-------------------------------------|-----------------------|-----------------------|
| Sample ID SD251217-090 (125620) | Matrix Concentrate | Batch ID FL1J1PC3 |
| Tested for Fresh Farms E-Liquid LLC | | |
| Sampled - | Received Dec 17, 2025 | Reported Jan 06, 2026 |
| Analyses executed D9C, GA-FPC | | Unit Mass (g) 5.0 |

Summary D9C: The total Δ9-THC content in this sample is 0.00%. 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 Dec 23, 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 | Result mg/Unit |
|----------------------------------|---------|---------|----------|-------------|----------------|
| Δ9-Tetrahydrocannabinol (Δ9-THC) | 1.462 | 4.432 | 0.00 | 0.00 | 0.00 |

CANx - Cannabinoids

Analyzed Dec 19, 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 | Result mg/Unit |
|--|----------|----------|----------|-------------|----------------|
| 11-Hydroxy-Δ8-Tetrahydrocannabinol (11-Hyd-Δ8-THCV) | 0.013 | 0.041 | ND | ND | ND |
| Cannabidiol (CBD) | 0.006 | 0.02 | ND | ND | ND |
| Abnormal Cannabidiol (a-CBDO) | 0.013 | 0.038 | ND | ND | ND |
| (±)-9B-hydroxy-Hexahydrocannabinol (9b-HHC) | 0.015 | 0.045 | ND | ND | ND |
| 11-Hydroxy-Δ8-Tetrahydrocannabinol (11-Hyd-Δ8-THC) | 0.015 | 0.045 | ND | ND | ND |
| Cannabidiolic Acid (CBDA) | 0.033 | 0.16 | ND | ND | ND |
| Cannabigerol Acid (CBGA) | 0.033 | 0.16 | ND | ND | ND |
| Cannabigerol (CBG) | 0.048 | 0.16 | ND | ND | ND |
| Cannabidiol (CBD) | 0.069 | 0.229 | ND | ND | ND |
| 1(S)-Tetrahydrocannabinol (1(S)-H4-CBD) | 0.008 | 0.026 | ND | ND | ND |
| 1(R)-Tetrahydrocannabinol (1(R)-H4-CBD) | 0.016 | 0.049 | ND | ND | ND |
| Tetrahydrocannabinol (THCV) | 0.049 | 0.162 | ND | ND | ND |
| Δ8-tetrahydrocannabinol (Δ8-THCV) | 0.012 | 0.036 | ND | ND | ND |
| Cannabidiol (CBDH) | 0.014 | 0.042 | ND | ND | ND |
| Tetrahydrocannabinol (Δ9-THCB) | 0.01 | 0.029 | ND | ND | ND |
| Cannabinol (CBN) | 0.047 | 0.16 | 1.73 | 17.30 | 86.50 |
| Cannabidiophorol (CBDP) | 0.016 | 0.049 | ND | ND | ND |
| exo-THC (exo-THC) | 0.016 | 0.8 | ND | ND | ND |
| Tetrahydrocannabinol (Δ9-THC) | 0.092 | 0.307 | D9C | D9C | D9C |
| Δ8-tetrahydrocannabinol (Δ8-THC) | 0.044 | 0.16 | 67.09 | 670.94 | 3354.70 |
| (6aR,9S)-Δ10-Tetrahydrocannabinol ((6aR,9S)-Δ10) | 0.015 | 0.8 | ND | ND | ND |
| Hexahydrocannabinol (S Isomer) (9s-HHC) | 0.017 | 0.8 | ND | ND | ND |
| (6aR,9R)-Δ10-Tetrahydrocannabinol ((6aR,9R)-Δ10) | 0.007 | 0.8 | ND | ND | ND |
| Hexahydrocannabinol (R Isomer) (9r-HHC) | 0.016 | 0.8 | ND | ND | ND |
| Tetrahydrocannabinolic Acid (THCA) | 0.117 | 0.389 | ND | ND | ND |
| Δ9-Tetrahydrocannabinol (Δ9-THCH) | 0.02 | 0.061 | 3.96 | 39.64 | 198.20 |
| Cannabinol Acetate (CBNO) | 0.009 | 0.027 | ND | ND | ND |
| 9(S)-Hexahydrocannabinolic Acid (9(S)-HHCa) | 0.063 | 0.065 | ND | ND | ND |
| 9(R)-Hexahydrocannabinolic Acid (9(R)-HHCa) | 0.191 | 0.196 | ND | ND | ND |
| Δ9-Tetrahydrocannabinol (Δ9-THCP) | 0.017 | 0.8 | 10.38 | 103.84 | 519.20 |
| Δ8-Tetrahydrocannabinol (Δ8-THCP) | 0.041 | 0.8 | ND | ND | ND |
| Cannabicitran (CBT) | 0.005 | 0.16 | ND | ND | ND |
| Δ8-THC-O-acetate (Δ8-THCO) | 0.076 | 0.8 | ND | ND | ND |
| 9(S)-HHCP (s-HHCP) | 0.013 | 0.041 | ND | ND | ND |
| Δ9-THC-O-acetate (Δ9-THCO) | 0.066 | 0.8 | ND | ND | ND |
| 9(R)-HHCP (r-HHCP) | 0.015 | 0.045 | ND | ND | ND |
| 9(S)-HHC-O-acetate (s-HHCO) | 0.037 | 0.112 | ND | ND | ND |
| 9(R)-HHC-O-acetate (r-HHCO) | 0.031 | 0.093 | ND | ND | ND |
| 3-octyl-Δ8-Tetrahydrocannabinol (Δ8-THC-C8) | 0.021 | 0.062 | ND | ND | ND |
| Total THC (THCa * 0.877 + Δ9THC) | | | D9C | D9C | D9C |
| Total THC + Δ8THC + Δ10THC (THCa * 0.877 + Δ9THC + Δ8THC + Δ10THC) | | | 67.09 | 670.94 | 3354.70 |
| Total CBD (CBDA * 0.877 + CBD) | | | ND | ND | ND |
| Total CBG (CBGA * 0.877 + CBG) | | | ND | ND | ND |
| Total HHC (9r-HHC + 9s-HHC) | | | ND | ND | ND |
| Total Cannabinoids Analyzed | | | 83.17 | 831.72 | 4158.60 |



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



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ISO/IEC 17025:2017 Acc. 85368



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Authorized Signature

Brandon Starr

Brandon Starr, Quality Assurance Manager
Tue, 06 Jan 2026 13:08:02 -0800

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HME - Heavy Metals

Analyzed Dec 19, 2025 | 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 | 0.00 | 0.2 |
| Cadmium (Cd) | 0.0005 | 0.0015 | 0.00 | 0.2 |
| Mercury (Hg) | 0.0058 | 0.0174 | ND | 0.2 |
| Lead (Pb) | 0.0006 | 0.0018 | ND | 0.2 |

MIBIG - Microbial

Analyzed Dec 29, 2025 | Instrument 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 | N/A |
| Aspergillus fumigatus | 1.0 | 1.0 | Negative | 1 |
| Aspergillus flavus | 1.0 | 1.0 | Negative | 1 |
| Aspergillus niger | 1.0 | 1.0 | Negative | 1 |
| Aspergillus terreus | 1.0 | 1.0 | Negative | 1 |

MTO - Mycotoxin

Analyzed Dec 18, 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 | 20 |
| Aflatoxin B2 | 2.5 | 5.0 | ND | 20 | Aflatoxin G1 | 2.5 | 5.0 | ND | 20 |
| Aflatoxin G2 | 2.5 | 5.0 | ND | 20 | 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



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PES - Pesticides

Analyzed Dec 30, 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 | 0.02 | Carbofuran | 0.01 | 0.02 | ND | 0.02 |
| Dimethoate | 0.01 | 0.02 | ND | 0.02 | Etofenprox | 0.02 | 0.1 | ND | 0.1 |
| Fenoxycarb | 0.01 | 0.02 | ND | 0.02 | Thiachloprid | 0.01 | 0.02 | ND | 0.02 |
| Daminozide | 0.01 | 0.03 | ND | 0.03 | Dichlorvos | 0.02 | 0.07 | ND | 0.07 |
| Imazalil | 0.02 | 0.07 | ND | 0.07 | Methiocarb | 0.01 | 0.02 | ND | 0.02 |
| Spiroxamine | 0.01 | 0.02 | ND | 0.02 | Coumaphos | 0.01 | 0.02 | ND | 0.02 |
| Fipronil | 0.01 | 0.1 | ND | 0.1 | Paclobutrazol | 0.01 | 0.03 | ND | 0.03 |
| Chlorpyrifos | 0.01 | 0.04 | ND | 0.04 | Ethoprophos (Prophos) | 0.01 | 0.02 | ND | 0.02 |
| Baygon (Propoxur) | 0.01 | 0.02 | ND | 0.02 | Chlordane | 0.04 | 0.1 | ND | 0.1 |
| Chlorfenapyr | 0.03 | 0.1 | ND | 0.1 | Methyl Parathion | 0.02 | 0.1 | ND | 0.1 |
| Mevinphos | 0.03 | 0.08 | ND | 0.08 | Acephate | 0.02 | 0.05 | ND | 0.05 |
| Acetamiprid | 0.01 | 0.05 | ND | 0.05 | Azoxystrobin | 0.01 | 0.02 | ND | 0.02 |
| Bifenazate | 0.01 | 0.05 | ND | 0.05 | Bifenthrin | 0.02 | 0.35 | ND | 0.1 |
| Boscalid | 0.01 | 0.03 | ND | 0.03 | Carbaryl | 0.01 | 0.02 | ND | 0.02 |
| Chlorantraniliprole | 0.01 | 0.04 | ND | 0.04 | Clofentezine | 0.01 | 0.03 | ND | 0.03 |
| Diazinon | 0.01 | 0.02 | ND | 0.02 | Dimethomorph | 0.02 | 0.06 | ND | 0.06 |
| Etoxazole | 0.01 | 0.05 | ND | 0.05 | Fenproximate | 0.02 | 0.1 | ND | 0.1 |
| Flonicamid | 0.01 | 0.02 | ND | 0.02 | Fludioxonil | 0.01 | 0.05 | ND | 0.05 |
| Hexythiazox | 0.01 | 0.03 | ND | 0.03 | Imidacloprid | 0.01 | 0.05 | ND | 0.05 |
| Kresoxim-methyl | 0.01 | 0.03 | ND | 0.03 | Malathion | 0.01 | 0.05 | ND | 0.05 |
| Metalaxyl | 0.01 | 0.02 | ND | 0.02 | Methomyl | 0.02 | 0.05 | ND | 0.05 |
| Myclobutanil | 0.02 | 0.07 | ND | 0.07 | Naled | 0.01 | 0.02 | ND | 0.02 |
| Oxamyl | 0.01 | 0.02 | ND | 0.02 | Permethrin | 0.01 | 0.02 | ND | 0.02 |
| Phosmet | 0.01 | 0.02 | ND | 0.02 | Piperonyl Butoxide | 0.02 | 0.06 | ND | 0.06 |
| Propiconazole | 0.03 | 0.08 | ND | 0.08 | Prallethrin | 0.02 | 0.05 | ND | 0.05 |
| Pyrethrin | 0.05 | 0.41 | ND | 0.1 | Pyridaben | 0.02 | 0.07 | ND | 0.07 |
| Spinosad A | 0.01 | 0.05 | ND | 0.05 | Spinosad D | 0.01 | 0.05 | ND | 0.05 |
| Spiromesifen | 0.02 | 0.06 | ND | 0.06 | Spirotetramat | 0.01 | 0.02 | ND | 0.02 |
| Tebuconazole | 0.01 | 0.02 | ND | 0.02 | Thiamethoxam | 0.01 | 0.02 | ND | 0.02 |
| Trifloxystrobin | 0.01 | 0.02 | ND | 0.02 | Captan | 0.01 | 0.02 | ND | 0.02 |
| Cypermethrin | 0.02 | 0.1 | ND | 0.1 | Cyfluthrin | 0.04 | 0.1 | ND | 0.1 |
| Fenhexamid | 0.02 | 0.07 | ND | 0.07 | Spinetoram J,L | 0.02 | 0.07 | ND | 0.07 |
| Pentachloronitrobenzene | 0.01 | 0.1 | ND | 0.1 | | | | | |

RES - Residual Solvents

Analyzed Dec 22, 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 | N/A | Butane (But) | 0.02 | 0.4 | ND | 800 |
| Methanol (Metha) | 1.176 | 3.92 | ND | N/A | Ethylene Oxide (EthOx) | 0.08 | 0.4 | ND | N/A |
| Pentane (Pen) | 0.024 | 0.4 | ND | N/A | Ethanol (Ethan) | 0.048 | 0.4 | ND | 5000 |
| Ethyl Ether (EthEt) | 0.036 | 0.4 | ND | N/A | Acetone (Acet) | 0.044 | 0.4 | <LOQ | N/A |
| Isopropanol (2-Pro) | 1.16 | 3.868 | <LOQ | N/A | Acetonitrile (Acetonit) | 0.888 | 2.952 | <LOQ | N/A |
| Methylene Chloride (MetCh) | 0.04 | 0.4 | 2.4 | N/A | Hexane (Hex) | 0.012 | 0.4 | ND | 100 |
| Ethyl Acetate (EthAc) | 0.032 | 0.4 | ND | N/A | Chloroform (Clo) | 0.028 | 0.4 | ND | N/A |
| Benzene (Ben) | 0.012 | 0.4 | ND | N/A | 1,2-Dichloroethane (1,2-Dich) | 0.024 | 0.4 | ND | N/A |
| Heptane (Hep) | 0.012 | 0.4 | ND | 500 | Trichloroethylene (TriClEth) | 0.072 | 0.4 | ND | N/A |
| Toluene | 0.036 | 0.4 | ND | N/A | Xylenes (Xyl) | 0.012 | 0.4 | ND | N/A |

FVI - Filth & Foreign Material Inspection

Analyzed Dec 18, 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 |

MICx - Microbial X

Analyzed Dec 29, 2025 | Instrument Plating | Method SOP-007

| Analyte | LOD CFU/G | LOQ CFU/G | Result CFU/G | Limit CFU/G |
|--------------------------------------|-----------|-----------|--------------|-------------|
| Total Yeast & Molds (TYM) | 1.0 | 1.0 | ND | 10000 |
| Gram Negative Bacteria (BTGN) | 1.0 | 1.0 | ND | 1000 |
| Total Viable Aerobic Bacteria (TVAB) | 1.0 | 1.0 | ND | 100000 |

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
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