

PharmLabs San Diego Certificate of Analysis

Sample Astro8 - THCP - 10CT - Lunar Haze

Delta9 THC 0.07%	THCa 0.25%	Total THC (THCa * 0.877 + THC) 0.29%	Delta8 THC ND
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Sample ID SD250414-016 (111223)	Matrix Flower
Tested for AB Industries	
Sampled -	Received Apr 14, 2025
Analyses executed HPLC, PP-1020	Reported May 30, 2025

Laboratory note: COA Update: 5/30/25 - Sample name updated as per client request.

CANx - Cannabinoids

Analyzed Apr 09, 2024 | Instrument HPLC-VWD | Method SOP-001
The expanded Uncertainty of the Cannabinoids analysis is approximately ±7.87% at the 95% Confidence Level

Analyte	LOD mg/g	LOQ mg/g	Result %	Result mg/g
11-Hydroxy-Δ8-Tetrahydrocannabinol (11-Hyd-Δ8-THCV)	0.013	0.041	ND	ND
Cannabidiol (CBD)	0.006	0.02	ND	ND
Abnormal Cannabidiol (a-CBD)	0.013	0.038	ND	ND
(±)-9,10-Dihydro-9,10-dihydrocannabinol (9,10-HHC)	0.015	0.045	ND	ND
11-Hydroxy-Δ8-Tetrahydrocannabinol (11-Hyd-Δ8-THC)	0.015	0.045	ND	ND
Cannabidiolic Acid (CBDA)	0.033	0.16	0.09	0.93
Cannabigerol Acid (CBGA)	0.033	0.16	0.93	9.36
Cannabigerol (CBG)	0.048	0.16	0.14	1.45
Cannabidiol (CBD)	0.069	0.229	0.02	0.23
1(5)-Tetrahydrocannabinol (1(5)-H4-CBD)	0.008	0.026	ND	ND
1(1)-Tetrahydrocannabinol (1(1)-H4-CBD)	0.006	0.049	ND	ND
Tetrahydrocannabinol (THCV)	0.049	0.362	ND	ND
Δ8-Tetrahydrocannabinol (Δ8-THCV)	0.012	0.056	ND	ND
Cannabihexol (CBDH)	0.014	0.042	ND	ND
Tetrahydrocannabinol (Δ9-THCB)	0.01	0.029	ND	ND
Cannabinol (CBN)	0.047	0.16	<LOQ	<LOQ
Cannabiphoral (CBDP)	0.006	0.049	ND	ND
exo-THC (exo-THC)	0.006	0.8	ND	ND
Tetrahydrocannabinol (Δ9-THC)	0.092	0.307	0.07	0.73
Δ8-Tetrahydrocannabinol (Δ8-THC)	0.044	0.16	ND	ND
(6aR,9S)-Δ10-Tetrahydrocannabinol ((6aR,9S)-Δ10)	0.015	0.8	ND	ND
Hexahydrocannabinol (S isomer) (9a-HHC)	0.017	0.8	2.03	20.34
(6aR,9R)-Δ10-Tetrahydrocannabinol ((6aR,9R)-Δ10)	0.007	0.8	ND	ND
Hexahydrocannabinol (R isomer) (9r-HHC)	0.006	0.8	5.90	59.05
Tetrahydrocannabinolic Acid (THCA)	0.017	0.389	0.25	2.47
Δ9-Tetrahydrocannabinol (Δ9-THCH)	0.02	0.068	ND	ND
Cannabinol Acetate (CBNO)	0.009	0.027	ND	ND
9(3)-Hexahydrocannabinolic Acid (9(3)-HHCa)	0.063	0.065	ND	ND
9(10)-Hexahydrocannabinolic Acid (9(10)-HHCa)	0.391	0.396	ND	ND
Δ9-Tetrahydrocannabinol (Δ9-THCP)	0.017	0.8	2.12	21.17
Δ8-Tetrahydrocannabinol (Δ8-THCP)	0.041	0.8	ND	ND
Cannabicitran (CBT)	0.005	0.16	ND	ND
Δ8-THC-O-acetate (Δ8-THCO)	0.076	0.8	ND	ND
9(3)-HHCp (s-HHCp)	0.013	0.041	ND	ND
Δ9-THC-O-acetate (Δ9-THCO)	0.066	0.8	ND	ND
9(10)-HHCp (r-HHCp)	0.015	0.045	ND	ND
9(3)-HHC-O-acetate (s-HHCO)	0.037	0.112	ND	ND
9(10)-HHC-O-acetate (r-HHCO)	0.031	0.093	ND	ND
3-acetyl-Δ8-Tetrahydrocannabinol (Δ8-THC-C8)	0.021	0.062	ND	ND
Total THC (THCa * 0.877 + Δ9THC)			0.29	2.90
Total THC + Δ8THC + Δ10THC (THCa * 0.877 + Δ9THC + Δ8THC + Δ10THC)			0.29	2.90
Total CBD (CBDA * 0.877 + CBD)			0.10	1.05
Total CBG (CBGa * 0.877 + CBG)			0.96	9.57
Total HHC (9r-HHC + 9s-HHC)			7.94	79.39
Total Cannabinoids Analyzed			11.41	114.07

*Dry Weight %

HME - Heavy Metals

Analyzed Apr 20, 2025 | Instrument ICP/MS/MS | Method SOP-005

Analyte	LOD ug/g	LOQ ug/g	Result ug/g	Limit ug/g
Arsenic (As)	0.0009	0.0027	0.02	0.2
Cadmium (Cd)	0.0005	0.0015	0.01	0.2
Mercury (Hg)	0.0058	0.0174	ND	0.2
Lead (Pb)	0.0006	0.0018	0.01	0.2

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



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Authorized Signature

Brandon Stahl

Brandon Stahl, Quality Assurance Manager
Pd, 30 May 2025 20:06:01 -0700

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PES - Pesticides

Analyzed Apr 22, 2025 | Instrument LC/MS/MS GC/MS/MS | Method SOP-003

Analyste	LOD ug/g	LOQ ug/g	Result ug/g	Limit ug/g	Analyste	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
Permethrin	0.01	0.02	ND	0.02	Thiochlorpyrid	0.01	0.02	ND	0.02
Daminozide	0.01	0.05	ND	0.05	Dichlorvos	0.02	0.07	ND	0.07
Imazalil	0.02	0.07	ND	0.07	Methidathion	0.01	0.02	ND	0.02
Spiraxamine	0.01	0.02	ND	0.02	Coumaphos	0.01	0.02	ND	0.02
Fipronil	0.01	0.1	ND	0.1	Pachlobutrazol	0.01	0.05	ND	0.05
Chlorpyrifos	0.01	0.04	ND	0.04	Ethionophos (Prophos)	0.01	0.02	ND	0.02
Bacgon (Propoxur)	0.01	0.02	ND	0.02	Chloridone	0.04	0.1	ND	0.1
Chlorfenvapir	0.05	0.1	ND	0.1	Methyl Parathion	0.02	0.1	ND	0.1
Hevinphos	0.05	0.08	ND	0.08	Abamectin	0.05	0.08	ND	0.08
Acetophate	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	0.05	ND	0.05
Carbaryl	0.01	0.02	ND	0.02	Chlorantraniliprole	0.01	0.04	ND	0.04
Clofentazone	0.01	0.05	ND	0.05	Diazinon	0.01	0.02	ND	0.02
Dimethomorph	0.02	0.06	ND	0.06	Etoazole	0.01	0.05	ND	0.05
Perpyrosumate	0.02	0.1	ND	0.1	Flonicamid	0.01	0.02	ND	0.02
Flydowonil	0.01	0.05	ND	0.05	Hexythiazox	0.01	0.05	ND	0.05
Imidacloprid	0.01	0.05	ND	0.05	Kresoxim-methyl	0.01	0.05	ND	0.05
Malathion	0.01	0.05	ND	0.05	Metolaxyl	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	0.05	0.08	ND	0.08
Prothidurin	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	Trifluogastrolin	0.01	0.02	ND	0.02
Acetquinocyl	0.02	0.09	ND	0.09	Captan	0.01	0.02	ND	0.02
Cypermethrin	0.02	0.1	ND	0.1	Cyfluthrin	0.04	0.1	ND	0.1
Penthexamid	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 Apr 17, 2025 | Instrument GC/FID with Headspace Analyzer | Method SOP-006

Analyste	LOD ug/g	LOQ ug/g	Result ug/g	Limit ug/g	Analyste	LOD ug/g	LOQ ug/g	Result ug/g	Limit ug/g
Propane (Prop)	0.044	0.4	69.4	N/A	Butane (But)	0.02	0.4	55.8	800
Methanol (Metho)	1.176	3.92	735.2	N/A	Ethylene Oxide (EthOx)	0.08	0.4	ND	N/A
Pentane (Pen)	0.024	0.4	ND	N/A	Ethanol (Ethanol)	0.048	0.4	<LOQ	5000
Ethyl Ether (EthEt)	0.036	0.4	ND	N/A	Acetone (Acet)	0.044	0.4	127.1	N/A
Isopropanol (2-Pro)	1.16	3.888	<LOQ	N/A	Acetonitrile (Acetonit)	0.888	2.952	<LOQ	N/A
Methylene Chloride (MetCl)	0.04	0.4	ND	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 (Hept)	0.012	0.4	ND	500	Trichloroethylene (TriClEth)	0.072	0.4	ND	N/A
Toluene	0.036	0.4	<LOQ	N/A	Xylenes (Xyl)	0.012	0.4	ND	N/A

FVI - Filth & Foreign Material Inspection

Analyzed Apr 16, 2025 | Instrument Microscope | Method SOP-010

Analyste / Limit	Result	Analyste / Limit	Result
> 1/4 of the total sample area covered by sand, soil, clinders, 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 Apr 09, 2025 | Instrument Chilled-mirror Dewpoint and Capacitance | Method SOP-008

Analyste	LOD %	LOQ %	Result	Limit	Analyste	LOD %	LOQ %	Result	Limit
Moisture (H ₂ O)	0.0	0.0	7.0 % H ₂ O	% H ₂ O	Water Activity (W _a)	0.05	0.05	0.50 a _w	a _w

MICx - Microbial X

Analyzed Apr 14, 2025 | Instrument Plating | Method SOP-007

Analyste	LOD CFU/G	LOQ CFU/G	Result CFU/G	Limit CFU/G
Total Yeast & Molds (TYM)	1.0	1.0	ND	10000
Listeria (LIS)	1.0	1.0	ND	N/A
Gram Negative Bacteria (BTGN)	1.0	1.0	1	1000
Total Viable Aerobic Bacteria (TVAB)	1.0	1.0	6	100000

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



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