PharmLabs San Diego Certificate of Analysis

Sample Kruz Blueberry Kush 1G

Delta9 THC UI THCa 20.95% Total THC (THCa * 0.877 + THC) 18.37%

Delta8 THC 11.64%



Sample ID SD230725-067 (816 4	48)	Matrix Flower	
Tested for Kruz			
Sampled -	Received Jul 25, 2023	Reported Sep 01, 2023	
Analuses executed FP-IO20, O	DARUSH		

Laboratory note: The estimated concentration of the unknown peak in the sample is 1.65% | 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 97-THC. At this time there are no reference standards available for (+)d8-THC. (+)d8-THC is a different compound from the main (-)d8-THC cannabinoid 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: 116-4%

CANx - Cannabinoids

Analyzed Aug 01, 2023 | Instrument HPLC-VWD | Method SOP-001

stelly 17 906% at the 05% Confidence Level

The expanded Uncertainty of the Cannabinoids analysis is approximately ±7.806% at the 95% Confidence Level				
Analyte	LOD mg/g	LOQ mg/g	Result %	Result mg/g
11-Hydroxy-A8-Tetrahydrocannabivarin (11-Hyd-A8-THCV)	0.013	0.041	ND	ND
Cannabidiorcin (CBDO)	0.006	0.02	ND	ND
Abnormal Cannabidiorcin (a-CBDO)	0.013	0.038	ND	ND
(+/-)-9B-hydroxy-Hexahydrocannibinol (9b-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	7.37	73.68
Cannabigerol Acid (CBGA)	0.033	0.16	1.46	14.64
Cannabigerol (CBG)	0.048	0.16	0.24	2.43
Cannabidiol (CBD)	0.069	0.229	1.06	10.58
1(S)-Tetrahydrocannabidiol (1(S)-H4-CBD)	0.008	0.026	ND	ND
1(R)-Tetrahydrocannabidiol (1(R)-H4-CBD)	0.016	0.049	ND	ND
Tetrahydrocannabivarin (THCV)	0.049	0.162	ND	ND
Δ8-tetrahydrocannabivarin (Δ8-THCV)	0.012	0.036	ND	ND
Cannabidihexol (CBDH)	0.005	0.16	ND	ND
Tetrahydrocannabutol (Δ9-THCB)	0.01	0.029	ND	ND
Cannabinol (CBN)	0.047	0.16	4.31	43.09
Cannabidiphorol (CBDP)	0.016	0.049	ND	ND
exo-THC (exo-THC)	0.016	0.8	ND	ND
Tetrahydrocannabinol (Δ9-THC)	0.092	0.307	UI	UI
Δ8-tetrahydrocannabinol (Δ8-THC)	0.044	0.16	11.64	116.40
(6aR,9S)-Δ10-Tetrahydrocannabinol ((6aR,9S)-Δ10)	0.015	0.8	ND	ND
Hexahydrocannabinol (S Isomer) (9s-HHC)	0.017	0.8	0.50	4.97
$(6aR,9R)-\Delta 10$ -Tetrahydrocannabinol $((6aR,9R)-\Delta 10)$	0.007	0.8	ND	ND
Hexahydrocannabinol (R Isomer) (9r-HHC)	0.016	0.8	0.74	7.40
Tetrahydrocannabinolic Acid (THCA)	0.117	0.389	20.95	209.47
Δ9-Tetrahydrocannabihexol (Δ9-THCH)	0.02	0.061	ND	ND
Cannabinol Acetate (CBNO)	0.009	0.027	ND	ND
Δ 9-Tetrahydrocannabiphorol (Δ 9-THCP)	0.017	0.8	ND	ND
Δ8-Tetrahydrocannabiphorol (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(S)-HHCP (s-HHCP)	0.013	0.041	ND	ND
Δ9-THC-O-acetate (Δ9-THCO)	0.066	0.8	ND	ND
9(R)-HHCP (r-HHCP)	0.015	0.045	ND	ND
9(S)-HHC-O-acetate (s-HHCO)	0.005	0.16	ND	ND
9(R)-HHC-O-acetate (r-HHCO)	0.031	0.093	ND	ND
3-octyl-Δ8-Tetrahydrocannabinol (Δ8-THC-C8)	0.021	0.062	ND	ND
Total THC (THCa * 0.877 + 49THC)			18.37	183.71
Total THC + \$\Delta\$ THC + \$\Delta\$ 10THC (THCa * 0.877 + \$\Delta\$ 9THC + \$\Delta\$ 8THC + \$\Delta\$ 10THC ()			30.01	300.11
Total CBD (CBDa * 0.877 + CBD)			7.52	75.19
Total CBG (CBGa * 0.877 + CBG)			1.53	15.27
Total HHC (9r-HHC + 9s-HHC)			1.24	12.37
Total Cannabinoids Analyzed			44.60	446.03
				*Dru Weight %

*Dry Weight %

HME - Heavy Metals

Analyzed Jul 28, 2023 | 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	0.17	1.5
Cadmium (Cd)	0.0005	0.0015	0.08	0.5
Mercury (Hg)	0.0058	0.0174	0.00	3
Lead (Pb)	0.0006	0.0018	0.12	0.5

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



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QA Testing

MIBIG - Microbial

Analyzed Jul 27, 2023 | 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	Negative	1
Salmonella spp.	1.0	1.0	Negative	1
Aspergillus fumigatus	1.0	1.0	Negative	1
Aspergillus flavus	1.0	1.0	Negative	1
Aspergillus niger	1.0	1.0	ND	1
Asperaillus terreus	1.0	1.0	Negative	1

MTO - Mycotoxin

Analyzed Jul 31, 2023 | Instrument LC/MSMS | Method SOP-004

Ochratoxin A 5.0 20.0 ND 20 Aflatoxin B1 2.5 5.0 ND Aflatoxin B2 2.5 5.0 ND - Aflatoxin Aflatoxin B1 2.5 5.0 ND	Limit ug/kg	Result ug/kg	LOQ ug/kg	LOD ug/kg	Analyte	Limit ug/kg	Result ug/kg	LOQ ug/kg	LOD ug/kg	Analyte
	-	ND	5.0	2.5	Aflatoxin B1	20	ND	20.0	5.0	Ochratoxin A
Afficient CO	-	ND	5.0	2.5	Aflatoxin G1	-	ND	5.0	2.5	Aflatoxin B2
Aridtoxin G2 2.5 5.0 ND - Total AridtoxinS 10.0 20.0 ND	20	ND	20.0	10.0	Total Aflatoxins	-	ND	5.0	2.5	Aflatoxin G2

Ul Unidentified
ND Not Detected
NA Not Applicable
NT Not Reported
LOD Limit of Detection
LOQ Limit of Quantification
<LOQ Detected
VULOL Above upper limit of linearity
CFU/g Colonyl Forming Units per 1 gram
TNTC Too Numerous to Count



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Scan the QR code to verify authenticity.

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Branden Starr

Brandon Starr, Quality Assurance Manager Fri, 01 Sep 2023 17:17:02 -0700



PES - Pesticides

Analyzed Aug 30, 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	0.01	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	<loq< td=""><td></td><td>Methyl Parathion</td><td>0.02</td><td>0.1</td><td>ND</td><td></td></loq<>		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		Chlormequat Chloride	0.02	0.1	NT	

RES - Residual Solvents

Analyzed Sep 01, 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)	0.044	0.4	ND		Butane (But)	0.02	0.4	ND	
Methanol (Metha)	1.176	3.92	ND		Ethylene Oxide (EthOx)	0.08	0.4	ND	
Pentane (Pen)	0.024	0.4	ND		Ethanol (Ethan)	0.048	0.4	ND	
Ethyl Ether (EthEt)	0.036	0.4	ND		Acetone (Acet)	0.044	0.4	52.9	
Isopropanol (2-Pro)	1.16	3.868	ND		Acetonitrile (Acetonit)	0.888	2.952	ND	
Methylene Chloride (MetCh)	0.04	0.4	ND		Hexane (Hex)	0.012	0.4	ND	
Ethyl Acetate (EthAc)	0.032	0.4	ND		Chloroform (Clo)	0.028	0.4	54.8	
Benzene (Ben)	0.012	0.4	ND		1-2-Dichloroethane (12-Dich)	0.024	0.4	ND	
Heptane (Hep)	0.012	0.4	<loq< td=""><td></td><td>Trichloroethylene (TriClEth)</td><td>0.072</td><td>0.4</td><td>ND</td><td></td></loq<>		Trichloroethylene (TriClEth)	0.072	0.4	ND	
Toluene	0.036	0.4	ND		Yulenes (Yul)	0.012	0.4	ND	

FVI - Filth & Foreign Material Inspection

Andread Box 20, 2020 Michigan Principle of the Control of the Co							
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	ND	> 1/4 of the total sample area	ND				

MWA - Moisture Content & Water Activity

Analyzed Jul 26, 2023 | 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	6.4 % Mw	13 % Mw	Water Activity (WA)	0.03	0.03	0.46 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
<.QO Detected
>ULOL Above upper limit of linearity
CFU/g Colonyl Forming Units per 1 gram
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Brandon Starr, Quality Assurance Manager Fri, 01 Sep 2023 17:17:02 -0700

