#### PharmLabs San Diego Certificate of Analysis

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#### Sample Extrax Rainbow Runtz

SDPharmLabs
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Sample ID SD220813-	010 (51011)	Matrix Flower (Inhalable Cannabis Good)	
Tested for Top Shelf	Hemp Co		
Sampled -	Received Aug 12, 2022	Reported Aug 22, 2022	
Analyses executed FI	P-10	Unit Mass (g) 3.5	

Laboratory note: The estimated concentration of the unknown peak in the sample is 0.51% | 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 d9-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 and d9-THC with the majority, if not all, of the concentration being (+)d8-THC. Total cannabinoids is estimated to be 18.8%

### \*CAN+ - Cannabinoids Analysis

Analyzed Aug 22, 2022 | Instrument HPLC-VWD | Method SOP-001 Measurement Uncertainty at 95% confidence 7.806%

Analyte	LOD mg/g	LOQ mg/g	Result %	Result mg/g	Result mg/Package
Cannabidivarin (CBDV)	0.039	0.16	ND	ND	ND
Cannabidiolic Acid (CBDA)	0.001	0.16	11.05	110.49	386.72
Cannabigerol Acid (CBGA)	0.001	0.16	0.58	5.81	20.34
Cannabigerol (CBG)	0.001	0.16	0.13	1.26	4.39
Cannabidiol (CBD)	0.001	0.16	1.80	17.97	62.90
Tetrahydrocannabivarin (THCV)	0.001	0.16	ND	ND	ND
Cannabinol (CBN)	0.001	0.16	<loq< td=""><td><loq< td=""><td><loq< td=""></loq<></td></loq<></td></loq<>	<loq< td=""><td><loq< td=""></loq<></td></loq<>	<loq< td=""></loq<>
Tetrahydrocannabinol (Δ9-THC)	0.003	0.16	UI	UI	UI
Δ8-tetrahydrocannabinol (Δ8-THC)	0.004	0.16	5.91	59.12	206.93
Cannabicyclol (CBL)	0.002	0.16	ND	ND	ND
Cannabichromene (CBC)	0.002	0.16	ND	ND	ND
Tetrahydrocannabinolic Acid (THCA)	0.001	0.16	0.31	3.09	10.83
Total THC (THCa * 0.877 + THC)			0.27	2.71	9.50
Total CBD (CBDa * 0.877 + CBD)			11.49	114.87	402.05
Total CBG (CBGa * 0.877 + CBG)			0.64	6.35	22.23
TOTAL CANNABINOIDS			18.31	183.06	640.71
					*Dry Weight %

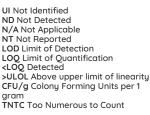
### Sample photography



### HME - Heavy Metals Detection Analysis

Analyzed Aug 22, 2022 | 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	0.05	0.13	0.2	Cadmium (Cd)	3.0e-05	0.05	0.16	0.2
Mercury (Hg)	1.0e-05	0.01	0.05	0.1	Lead (Pb)	1.0e-05	0.125	0.27	0.5







Authorized Signature

Brandon Starr

Brandon Starr, Lab Manager Mon, 22 Aug 2022 17:12:29 -0700

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# QA Testing

### **MIBIG - Microbial Testing Analysis**

Analyzed Aug 17, 2022 | Instrument qPCR and/or Plating | Method SOP-007

Analyte	Result CFU/g	Limit Analyte	Result Limit CFU/g
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 Aug 16, 2022 | Instrument LC/MSMS | Method SOP-004

Analyte	LOD ug/kg	LOQ ug/kg	Result ug/kg (ppb)	Limit ug/kg	Analyte	LOD ug/kg	LOQ 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 TNTC Too Numerous to Count





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### **QA** Testing

### **PES - Pesticides Screening Analysis**

Analyzed Aug 16, 2022 | 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
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					

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





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# QA Testing

## **RES - Residual Solvents Testing Analysis**

Analyzed Aug 16, 2022 | Instrument GC/FID with Headspace Analyzer | Method SOP-006

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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	Butane (But)	0.4	40.0	ND	5000
Methanol (Metha)	0.4	40.0	658.7	3000	Ethylene Oxide (EthOx)	0.4	0.8	ND	1
Pentane (Pen)	0.4	40.0	ND	5000	Ethanol (Ethan)	0.4	40.0	110.0	5000
Ethyl Ether (EthEt)	0.4	40.0	ND	5000	Acetone (Acet)	0.4	40.0	106.6	5000
Isopropanol (2-Pro)	0.4	40.0	ND	5000	Acetonitrile (Acetonit)	0.4	40.0	ND	410
Methylene Chloride (MetCh)	0.4	0.8	ND	1	Hexane (Hex)	0.4	40.0	ND	290
Ethyl Acetate (EthAc)	0.4	40.0	ND	5000	Chloroform (Clo)	0.4	0.8	ND	1
Benzene (Ben)	0.4	0.8	ND	1	1-2-Dichloroethane (12-Dich)	0.4	0.8	ND	1
Heptane (Hep)	0.4	40.0	ND	5000	Trichloroethylene (TriClEth)	0.4	0.8	ND	1
Toluene (Toluene)	0.4	40.0	ND	890	Xylenes (Xyl)	0.4	40.0	ND	2170

## FVI - Filth & Foreign Material Inspection Analysis

Analyzed Aug 15, 2022 | 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

## MWA - Moisture Content & Water Activity Analysis

Analyzed Aug 15, 2022 | Instrument Chilled-mirror Dewpoint and Capacitance | Method SOP-008

Analyte	Result	Limit	Analyte	Result	Limit
Moisture (Moi)	7.1 % Mw	13 % Mw	Water Activity (WA)	0.50 a <sub>w</sub>	0.85 a <sub>w</sub>

**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





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