

# **Analytical Test Report**

Client:	Final Report	PHR-S1900427 Rev.01.00	Laboratory:
High Falls Hemp NY			PHR Labs
			2020 Downyflake Lane
	Report Date:	9 AUGUST 2019	Allentown, PA 18104
			215-220-9981

Sample ID #	Sample Name	Batch	Matrix	Date Received	Date Tested	Serving size weight
PHR-S19- 00427	3000mg isolate tincture	N/A	MIP	6 August 2019	08 August 2019	1 gram

The test results presented in this report are accurate, complete, and compliant with the PHR Labs quality control criteria.

Authorization

Corey Fitze

**Chief Operating Officer** 

# **Case Narrative:**

For cannabinoids, the sample was extracted using organic solvents and analyzed via High Performance Liquid Chromatography (HPLC-UV). The collected data was compared to data collected from analytical reference standards at known concentrations. Values reported below quantitation limits are for informational purposes.

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# **Requested Testing:**

moqueous recuirg.				
Test	Code	Procedure	Analytes Tested	Dispositio
1030	Oouc	Troccaure	Analytes resteu	n
Cannabinoid Profile	CN	PHR-TM-0002	CBGA, CBG, THCA, Δ9-THC, Δ8-THC, CBDA, CBD,	
			CBNA, CBN, CBCA, CBC, CBLA, CBL, CBDVA, CBDV,	N/A
			THCV/A THCV/	

1/3

Cannabinoid Profile [PHR-TM-0002]

Analyst: AJS et al

Test Date: 08 Aug 19

The sample was analyzed for cannabinoids via High Performance Liquid Chromatography (HPLC-UV). The collected data was compared to data collected from certified analytical reference standards at known concentrations.

Table. 1. 19-00427 3000mg isolate tincture N/A MIP Cannabinoid Testing

Analyte	Cannabinoid	Conc. (mg/serving size)	Conc. (mg/g)	LOQ (mg/g)	LOD (mg/g)
CBDVA	Cannabidivarinic acid	ND	ND	0.1	0.009
CBDV	Cannabidivarin	0.49	0.49	0.1	0.015
CBDA	Cannabidiolic acid	ND	ND	0.1	0.032
CBGA	Cannabigerolic acid	ND	ND	0.1	0.001
CBG	Cannabigerol	0.29	0.29	0.1	0.015
CBD	Cannabidiol	104.14	104.14	0.5	0.024
THCV	Tetrahydrocannabivarin	ND	ND	0.1	0.033
THCVA	Tetrahydrocannabivarinic acid	ND	ND	0.1	0.015
CBN	Cannabinol	ND	ND	0.1	0.002
CBNA	Cannabinolic acid	ND	ND	0.1	0.018
Δ9-ΤΗС	Δ9-Tetrahydrocannabinol	ND	ND	0.1	0.048
Δ8-ΤΗС	Δ8-Tetrahydrocannabinol	ND	ND	0.1	0.044
CBL	Cannabicyclol	ND	ND	0.1	0.018
CBC	Cannabichromene	ND	ND	0.1	0.010
THCA	Tetrahydrocannabinolic acid	ND	ND	0.1	0.014
CBCA	Cannabichromenic acid	ND	ND	0.1	0.013
CBLA	Cannabicyclolic acid	ND	ND	0.1	0.016

Note: ND = Not Detected. LOQ = limit of quantitation. LOD = limit of detection.

# QA/QC

The sample data for certified reference standards was collected at known concentrations of cannabinoids in solution.

QC-0.05 mg/mL 17 cannabinoid multi-component 7/1/2019

ID	Cannabinoid	Nominal Prep Conc (mg/mL)	Measured Conc. (mg/mL)	Recovery (%)
CBDVA	Cannabidivarinic acid	0.05	0.045	90%
CBDV	Cannabidivarin	0.05	0.048	96%
CBDA	Cannabidiolic acid	0.05	0.050	100%
CBGA	Cannabigerolic acid	0.05	0.048	96%
CBG	Cannabigerol	0.05	0.047	94%
CBD	Cannabidiol	0.05	0.050	100%
THCV	Tetrahydrocannabivarin	0.05	0.048	95%
THCVA	Tetrahydrocannabivarinic acid	0.05	0.047	94%
CBN	Cannabinol	0.05	0.049	98%
CBNA	Cannabinolic acid	0.05	0.042	84%
Δ9-THC	Δ9-Tetrahydrocannabinol	0.05	0.050	100%
Δ8-THC	Δ8-Tetrahydrocannabinol	0.05	0.048	96%
CBL	Cannabicyclol	0.05	0.047	94%
CBC	Cannabichromene	0.05	0.047	94%
THCA	Tetrahydrocannabinolic acid	0.05	0.049	98%
CBCA	Cannabichromenic acid	0.05	0.045	90%
CBLA	Cannabicyclolic acid	0.05	0.042	84%

Criteria for successful analysis is QC recovery to be ≤20% above or below nominal.

**END OF REPORT** 

2020 Downyflake Lane
PHR-FRM-0056 Rev 1 Allentown, PA 18104 3/3



HIGH FALLS HEMP NY 3000MG CBD ISOLATE **TINCTURE ISOLATE** Matrix: Derivative



Page 1 of 5

#### High Falls Extracts, LLC

404 Fifth Avenue, Suite 3015 NEW YORK New York, United States 10018 (845) 286-2118 support@highfallsextracts.com





#### SAMPLE:GA90725001-002

METRC/Biotrack#19062607 Harvest/Lot ID: 19062607 Batch#: 19062607, Sample Size: 30 ml Ordered: 07/24/19 Sampled:06/26/19 Completed: 07/31/19 Expires: 07/31/20 Sampling Method: SOP Client Method

#### Safety **Image**



Pesticides - Passed Microbials - Passed Mycotoxins - Passed Heavy Metals - Passed Terpenes - NOT Tested Residual-Solvents - Passed Filth - Passed

Water Activity - NOT Tested Moisture - NOT Tested

# Cannabinoids

Analyte	Weight(%)	mg/g
D9-THC	ND	ND
THCA	ND	ND
CBD	9.070	90.700
CBDA	ND	ND
CBN	ND	ND
CBDV	0.043	0.430
D8-THC	ND	ND
THCV	ND	ND
CBG	ND	ND
CBGA	ND	ND
CBC	ND	ND
TOTAL THC	ND	ND
TOTAL CBD	9.070	90.700

#### **Cannabinoids**



		9.070				
ND	ND		ND	ND	0.043	
D9-THC	THCa	CBD	CBDa	CBN	CBDV	D

ND	ND	ND	ND	ND	ND	
D8-THC	THCV	CBG	CBGa	СВС	Total THC	Total CBD



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HIGH FALLS HEMP NY 3000MG CBD ISOLATE TINCTURE ISOLATE Matrix: Derivative



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SAMPLE:GA90725001-002

METRC/Biotrack#19062607 Harvest/Lot ID: 19062607

Batch#: 19062607, Sample Size: 30 ml Ordered: 07/24/19 Sampled:06/26/19 Completed: 07/31/19 Expires: 07/31/20 Sampling Method: SOP Client Method

Pesticides	LOQ	Action Level	Units	Result	Pesticides	LOQ	Action	Units	Result
DIMETHOATE	0.01	0.2	ppm	ND			Level		
ABAMECTIN B1A	0.02	0.3	ppm	ND	MALATHION	0.01	5	ppm	ND
PENTACHLORONITROBENZENE	0.01	0.2	ppm	ND	CYPERMETHRIN	0.02	1	ppm	ND
METHYL PARATHION	0.05	0.2	ppm	ND	DAMINOZIDE	0.02	0.5	ppm	ND
CYFLUTHRIN	0.05	1	ppm	ND	METALAXYL	0.01	15	ppm	ND
ACEPHATE	0.01	5	ppm	ND	DICHI ORVOS	0.05	0.1	ppm	ND
DIMETHOMORPH	0.005	20	ppm	ND	METHIOCARB	0.01	0.2	ppm	ND
ETHOPROPHOS	0.01	0.2	ppm	ND	METHOMYL	0.01	0.1	ppm	ND
ACETAMIPRID	0.01	5	ppm	ND	DIAZANON	0.01	0.2	ppm	ND
ETOFENPROX	0.01	0.4	ppm	ND	MEVINPHOS	0.01	0.05	ppm	ND
ALDICARB	0.02	0.5	ppm	ND	MYCLOBUTANIL	0.01	9	ppm	ND
ETOXAZOLE	0.01	1.5	ppm	ND	NALED	0.01	0.5	ppm	ND
AZOXYSTROBIN	0.01	40	ppm	ND	OXAMYL	0.01	1.5	ppm	ND
FENHEXAMID	0.01	10	ppm	ND	PACLOBUTRAZOL	0.01	0.4	ppm	ND
BIFENAZATE	0.01	5	ppm	ND	PERMETHRINS	0.05	20	ppm	ND
FENOXYCARB	0.01	0.2	ppm	ND	PHOSMET	0.01	0.2	ppm	ND
FENPYROXIMATE	0.01	0.5	ppm	ND	PIPERONYL BUTOXIDE	0.01	8	ppm	ND
BIFENTHRIN	0.01	0.5	ppm	ND	PRALLETHRIN	0.05	0.4	ppm	ND
CARBARYL	0.01		ppm	ND	PROPICONAZOLE	0.01	20	ppm	ND
FIPRONIL	0.02	0.4	ppm	ND	PROPOXUR	0.01	0.2	ppm	ND
FLONICAMID	0.01	2	ppm	ND	PYRETHRINS (PYRETHRIN I)	0.01	1	ppm	ND
CARBOFURAN	0.01		ppm	ND	PYRIDABEN	0.01	3	ppm	ND
CHLORANTRANILIPROLE	0.01		ppm	ND	SPINOSAD (SPINOSYN A)	0.01	3	ppm	ND
FLUDIOXONIL	0.01	30	ppm	ND	SPINOSAD (SPINOSYN D)	0.01	3	ppm	ND
HEXYTHIAZOX	0.01	2	ppm	ND	SPIROMESIFEN	0.01	12	ppm	ND
CHLORFENAPYR	0.01	1.5	ppm	ND	SPIROTETRAMAT	0.02	13	ppm	ND
IMAZALIL	0.01	0.2	ppm	ND	SPIROXAMINE	0.01	0.4	ppm	ND
CHLORPYRIFOS	0.01	0.5	ppm	ND	TEBUCONAZOLE	0.01	2	ppm	ND
IMIDACLOPRID	0.01	3	ppm	ND	THIACLOPRID	0.01	0.2	ppm	ND
CLOFENTEZINE	0.01	0.5	ppm	ND	THIAMETHOXAM	0.01	4.5	ppm	ND
KRESOXIM-METHYL	0.01	1	ppm	ND	TRIFLOXYSTROBIN	0.01	30	ppm	ND ND
COUMAPHOS	0.005	0.2	ppm	ND	THE CONTROL OF	0.01	30	pp	



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HIGH FALLS HEMP NY 3000MG CBD ISOLATE TINCTURE ISOLATE Matrix: Derivative



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### SAMPLE:GA90725001-002

METRC/Biotrack#19062607 Harvest/Lot ID: 19062607

Batch#: 19062607, Sample Size: 30 ml
Ordered: 07/24/19 Sampled:06/26/19
Completed: 07/31/19 Expires: 07/31/20
Sampling Method: SOP Client Method

Residual solvent	Action Level(ppm)	Pass/Fail	Results(ppm)
1,2-DICHLOROETHANE	2	Pass	ND
1,2-DICHLOROETHENE	8	Pass	ND
1,4-DIOXANE		Pass	ND
2-BUTANOL		Pass	ND
2-ETHOXYETHANOL		Pass	ND
2-PROPANOL	500	Pass	ND
ACETONE	750	Pass	ND
ACETONITRILE	60	Pass	ND
BENZENE	1	Pass	ND
BUTANES (ISO-BUTANE)	2000	Pass	ND
BUTANES (N-BUTANE)		Pass	ND
CHLOROFORM	2	Pass	ND
ETHANOL	5000	Pass	ND
ETHYL ACETATE	400	Pass	ND
CYCLOHEXANE		Pass	ND
DICHLOROMETHANE		Pass	ND
ETHYL ETHER	500	Pass	ND
ETHYLENE OXIDE	5	Pass	ND
ETHYLBENZENE		Pass	ND
HEPTANE	500	Pass	ND
HEXANES (2,2-DIMETHYLBUTANE)	60	Pass	ND
HEXANES (2,3-DIMETHYLBUTANE)	60	Pass	ND
HEXANES (2-METHYLPENTANE)	60	Pass	ND
HEXANES (3-METHYLPENTANE)	60	Pass	ND
ISOPROPYL ACETATE		Pass	ND
METHALENE CHLORIDE	125	Pass	ND
METHANOL	250	Pass	ND
N-HEXANE		Pass	ND
PENTANES (ISO-PENTANE)		Pass	ND
PENTANES (N-PENTANE)	750	Pass	ND
PENTANES (NEO-PENTANE)		Pass	ND
PROPANE	100	Pass	ND
TETRAHYDROFURAN		Pass	ND
TOLUENE	150	Pass	ND
TOTAL XYLENES	150	Pass	ND
TRICHLOROETHYLENE	25	Pass	ND



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#### SAMPLE:GA90725001-002

METRC/Biotrack#19062607 **Harvest/Lot ID: 19062607**Batch#: 19062607, Sample Size: 30 ml

Batch#: 19062607, Sample Size: 30 ml Ordered: 07/24/19 Sampled:06/26/19 Completed: 07/31/19 Expires: 07/31/20 Sampling Method: SOP Client Method

Cannabinoid Profile Test Result-Analysis Method :SOP.T.40.020, Analytical Batch:GA005047 Batch : 2019-07-25 12:21:37 SOP.T.30.050

Analyst #508 Weight: 3.0037g Sample Prep: 2019-07-26 09:07:15 Extracted By: 508

 Reagent LOT ID
 Dilution
 Consumables Id
 Reagent LOT ID
 Dilution
 Consumables Id

 072519.R02
 10
 28065964
 072319.R03
 00267301 / 00268913 / 00273299

 071719.R02
 181205
 00267301 / 00268913 / 00273299

Full spectrum cannabinoid analysis utilizing High Performance Liquid Chromatography with UV detection (HPLC-UV). (Method: SOP.T.30.050 for sample prep and Shimadzu High Sensitivity Method SOP.T.40.020 for analysis. LOQ for all cannabinoids is 1 mg/L).

 Filth and foreign Materials-Analysis Method:
 Analytical Batch: GA005067
 Batch: 2019-07-25 17:15:36

 Analyst #650
 Weight: 0.6076g
 Sample Prep: 2019-07-25 05:07:05
 Extracted By: 650

This includes but is not limited to hair, insects, feces, packaging contaminants, and manufacturing waste and by-products. An SH-2B/T Stereo Microscope is use for inspection. **n Analysis-Analysis Method Weight:** 1.0048g **Analytical Batch:** GA005056 **Batch:** 2019-07-25 15:57:15

Mycotoxin Analysis-Analysis Method :SOP.T.30.065, SOP.T.40.065

Analyst #635 Analyte Sample Prep: 2019-07-26 12:07:34 Results **Action Level** Extracted Bv: 635 AFLATOXIN\_G2 ND AFLATOXIN\_G1 ND 0.02 AFLATOXIN B2 ND 0.02 AFLATOXIN B1 ND 0.02 OCHRATOXIN A ND 0.02

Aflatoxins B1, B2, G1, G2, and Ochratoxins A testing using LC-MS. (Method: SOP.T.30.065 for Sample Preparation and SOP.T40.065 Procedure for Mycotoxins Quantification Using LCMS. LOQ 1.0 ppb). Total Aflatoxins (Aflotoxin B1, B2, G1, G2) must be <20µg/Kg. Ochratoxins must be <20µg/Kg.

Micro Analysis-Analysis method :SOP.T.40.043 Weight : 1.0310g Analytical Batch: GA005099
Reagent LOT/ID Dilution Consumables id

00219002 180928119C 70336-846C2-8346

 Pathogens
 Analyst #729
 Results
 Sample Prep: 2019-07-26 01:07:58
 Extracted By: 507

 ASPERGILLUS\_TERREUS\_1J2
 not present in 1 gram.

ASPERGILLUS\_NIGER not present in 1 gram.
ASPERGILLUS\_FUMIGATUS not present in 1 gram.
ASPERGILLUS\_FLAVUS not present in 1 gram.
ASPERGILLUS\_FLAVUS not present in 1 gram.
SALMONELIA\_SPECIFIC\_GENE not present in 1 gram.
ESCHERICHIA\_COLI\_SHIGELIA\_SPP not present in 1 gram.
TOTAL\_YEAST\_AND\_MOLD not present in 1 gram.

Microbiological testing for Fungal and Bacterial Identification via Polymerase Chain Reaction (PCR) method consisting of sample DNA amplified via tandem Polymerase Chain Reaction (PCR) as a crude lysate which avoids purification. (Method SOP.T.40.043) If a pathogenic Escherichia Coli, Salmonella, Aspergillus fumigatus, Aspergillus flavus, Aspergillus niger, or Aspergillus terreus is detected in 1g of a sample, the sample fails the microbiological-impurity testing.



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Batch: 2019-07-26 13:41:21

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SAMPLE:GA90725001-002

METRC/Biotrack#19062607 Harvest/Lot ID: 19062607

Batch#: 19062607, Sample Size: 30 ml Ordered: 07/24/19 Sampled:06/26/19 Completed: 07/31/19 Expires: 07/31/20 Sampling Method: SOP Client Method

 Pesticide Analysis-Analysis Method:SOP.T.30.065, SOP.T.40.065
 Analytical Batch : GA005055
 Batch : 2019-07-25 15:57:06

 Analyst # 635
 Weight : 1.0048g
 Sample Prep : 2019-07-26 12:07:59
 Extracted By : 635

 Reagent LOT/ID
 Dilution
 Consumables ID
 Reagent LOT/ID
 Dilution
 Consumables ID

 072519,R02
 1
 28065964
 072219.R02
 1920V103 / 192V315

 071819,R03
 181205
 071819,R04
 P7254474 / P7312914

Pesticide screen is performed using LC-MS which can screen down to below single digit ppb concentrations for regulated Pesticides. Currently we analyze for 57 Pesticides. (Method: SOP.T.30.065 Sample Preparation for Pesticides Analysis via LCMSMS and SOP.T40.065 Procedure for Pesticide Quantification Using LCMS).

 Heavy Metals Analysis-Analysis-Method:SOP.T.40.050, SOP.T.30.052
 Analytical Batch: GA005061
 Batch: 2019-07-25 16:20:37

 Analyst #650
 Weight: 0.2561g
 Sample Prep: 2019-07-25 04:07:25
 Extracted By:650

 Reagent LOT/ID
 Dilution
 Consumables ID
 Reagent LOT/ID
 Dilution
 Consumables ID

 072519.R18
 50
 105576-16
 072519.R16

 072519.R17
 072519.R14
 072519.R13

Heavy Metals screening is performed using ICP-MS (Inductively Coupled Plasma – Mass Spectrometer) which can screen down to below single digit ppb concentrations for regulated heavy metals using Method SOP.T.30.052 Sample Preparation for Heavy Metals Analysis via ICP-MS and SOP.T.40.050 Heavy Metals Analysis via ICP-MS.

 Metal
 Result
 Action-Level

 ARSENIC
 ND
 1.5

 CADMIUM
 ND
 0.5

 LEAD
 ND
 0.5

 MERCURY
 ND
 3

Abbreviation:ppm=Parts Per Million

 Residual SolventsAnalysis Method:SOP.T.40.032
 Analytical Batch :GA005042
 Batch : 2019-07-25 11:48:46

 Analyst #508
 Weight : 0.0275g
 Sample Prep : 2019-07-25 01:07:19
 Extracted By : 508

 Reagent LOT ID
 Dilution
 Consumables Id
 Reagent LOT ID
 Dilution
 Consumables Id

 1
 c4020-2
 1
 C4020-2
 C4020-2<

Residual solvents screening is performed using GC-MS which can detect below single digit ppm concentrations. Currently we analyze for 34 Residual solvents. (Method: SOP.T.30.042 Residual Solvents Analysis via GC-MS).



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