



HighRes Labs Inc.
 501 E. 15th St, Suite 500C
 Edmond OK 73013
 License #: LAAA-CKDM-WJ18
 Phone: 405-330-5887

Certificate of Analysis

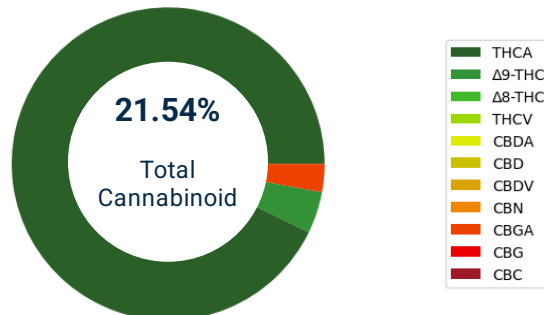
Client Name: Stems4Life LLC
Address: 4305 WESTERN AVE WOODWARD,
 Oklahoma 73801-9412
Phone: 5802161050
License Number: GAAA-NYYK-PA7B

Sample ID: SAM-11/10/2023-9854
Strain Name: BLACK CHERRY PUNCH
Sample Matrix: Flower
Sample Matrix Subtype:
Sample Date: 11/10/2023
Sample Batch ID: 2023-10-27-DRY ROOM-H
Sample Metric ID: 1A40E01000047E7000000769
Client Sample Size(g): 10

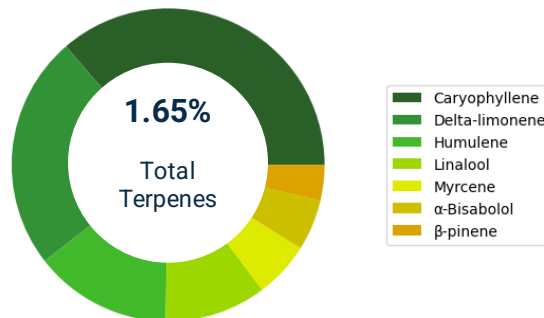
Results Summary

Foreign Materials & Filth	✓	PASS
11/17/2023		
Moisture	✓	PASS
11/17/2023		
Water Activity	✓	PASS
11/17/2023		
Potency		TESTED
11/17/2023		
Terpenes		TESTED
11/17/2023		
Heavy Metals	✓	PASS
11/17/2023		
Pesticides	✓	PASS
11/17/2023		
Microbial Impurities	✓	PASS
11/17/2023		

Cannabinoid Distribution (%)



Terpene Distribution (%)



The product represented has been tested by HighRes Labs using analytical instrumentation with proven and validated scientific methodologies compliant with Oklahoma Medical Marijuana Authority guidelines. The results in this COA apply only to the lot sampled, tested and described herein as tracked by State of Oklahoma contract system. HighRes Labs makes no claims as to the efficacy and/or safety of the product represented herein. This Certificate of Analysis may not be reproduced except in full without the express written consent of HighRes Labs. All quantitative measurements reported herein have a measurement uncertainty calculated internally and is available upon requested, comprehensive of estimated errors from the Sampling SOP utilized.



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Foreign Materials & Filth

✓ PASS

Date Analyzed:

Instrument: Visual Inspection

Date Completed: 11/17/2023

Method: SOP-F01

Foreign Materials**Status**

Foreign Materials Analysis

Pass

Comments:

Moisture

✓ PASS

Date Analyzed:

Instrument: Moisture balance

Date Completed: 11/17/2023

Method: SOP-M01

Calibration Date: 05/18/2023**Moisture****Result (%)****Specification (%)****Status**

Moisture

9.4

0.0-15.0

Pass

Water Activity

✓ PASS

Date Analyzed:

Instrument: Water activity meter

Date Completed: 11/17/2023

Method: SOP-W01

Calibration Date: 11-03-2023**Water Activity****Result (Aw)****Limit (Aw)****Status**

Water Activity

0.40

0.65

Pass



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Potency

Date Analyzed:
Instrument: HPLC

Date Completed: 11/17/2023
Method: SOP-C01

Calibration Date: 05/01/2023

Cannabinoid	Result (%)	Result (mg/g)	LOQ (mg/g)
THCA	20.67	206.66	0.01
Δ9-THC	0.59	5.87	0.01
Δ8-THC	ND	ND	0.01
THCV	ND	ND	0.01
CBDA	ND	ND	0.01
CBD	ND	ND	0.01
CBDV	ND	ND	0.01
CBN	ND	ND	0.01
CBGA	0.28	2.85	0.01
CBG	ND	ND	0.01
CBC	ND	ND	0.01
Total THC	18.71	187.11	-
Total CBD	ND	ND	-
Total Cannabinoids	21.54	215.38	-
Total THC(dry) = (THCa % 0.877 + Δ9-THC) / (1 - moisture)			
Total CBD(dry) = (CBDA % 0.877 + CBD) / (1 - moisture)			



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Certificate of Analysis**Terpenes****Date Analyzed:****Instrument:** GC-FID**Date Completed:** 11/17/2023**Method:** SOP-T01**Calibration Date:** 05/08/2023

Terpene	Result (mg/g)	Result (%)	LOQ (mg/g)
α-Pinene	1.50	0.15	0.01
Camphene	ND	ND	0.01
Myrcene	1.20	0.12	0.01
β-pinene	1.10	0.11	0.01
3-Carene	ND	ND	0.01
Terpinene	ND	ND	0.01
Ocimene	ND	ND	0.01
Delta-limonene	5.40	0.54	0.01
p-Cymene	ND	ND	0.01
β-Ocimene	ND	ND	0.01
Eucalyptol	ND	ND	0.01
γ-Terpinene	ND	ND	0.01
terpinolene	ND	ND	0.01
Linalool	1.00	0.10	0.01
Isopulegol	ND	ND	0.01
Geraniol	ND	ND	0.01
Caryophyllene	3.40	0.34	0.01
Humulene	1.00	0.10	0.01
Nerolidol	ND	ND	0.01
Guaiol	0.70	0.07	0.01
Caryophyllene oxide	ND	ND	0.01
α-Bisabolol	1.20	0.12	0.01

Heavy Metals**✓ PASS****Date Analyzed:****Instrument:** ICPMS**Date Completed:** 11/17/2023**Method:** SOP-HM01**Calibration Date:** 05/01/2023

Heavy Metals	Result (ppm)	LOQ (ppm)	Limit (ppm)	Status
Arsenic	ND	0.05	0.20	Pass
Cadmium	<LOQ	0.05	0.20	Pass
Lead	ND	0.05	0.50	Pass
Mercury	<LOQ	0.05	0.10	Pass

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Pesticides

✓ PASS

Date Analyzed:
Instrument: LCMSMS

Date Completed: 11/17/2023
Method: SOP-PM01

Calibration Date: 05/15/2023

Pesticide	Result (ppb)	Result (ppm)	LOQ (ppm)	Limit (ppm)	Status
Abamectin	ND	ND	0.02	0.50	Pass
Azoxystrobin	ND	ND	0.02	0.20	Pass
Bifenazate	ND	ND	0.02	0.20	Pass
Etoazole	ND	ND	0.02	0.20	Pass
Imazalil	ND	ND	0.02	0.20	Pass
Imidacloprid	ND	ND	0.02	0.40	Pass
Malathion	ND	ND	0.02	0.20	Pass
Myclobutanil	ND	ND	0.02	0.20	Pass
Permethrin	ND	ND	0.02	0.20	Pass
Spinosad	ND	ND	0.02	0.20	Pass
Spiromesifen	ND	ND	0.02	0.20	Pass
Spirotetramat	ND	ND	0.02	0.20	Pass
Tebuconazole	ND	ND	0.02	0.40	Pass

Microbial Impurities

✓ PASS

Date Analyzed:
Instrument: qPCR

Date Completed: 11/17/2023
Method: SOP-Micro-01, 02, 03, 04, 05, 06, 07

Calibration Date: 11-03-2023

Microbials	Result (CFU/g)	Limit (CFU/g)	Status
Aspergillus Flavus	ND	1	Pass
Aspergillus Fumigatus	ND	1	Pass
Aspergillus Niger	ND	1	Pass
Aspergillus Terreus	ND	1	Pass
Yeast & Mold	9224	10000	Pass
E.coli	ND	1	Pass
Salmonella	ND	1	Pass

Dr. Luke Wang
Lab Director
11/17/2023