



Certificate of Analysis

Pages 1 of 5

PASSED



Batch #: 260624DSLF2-39a
Production Method: Cured
Total Amount: gram
Retail Product Size: gram
Retail Serving Size: gram
Servings: 1
Metric Package #:
1A40A0300000641000020078
Metric Source Package #:
1A40A0300000641000020074

Lab ID: NA60716005-008
Ordered: 07/16/26
Sampled Date: 07/16/26
Sample Size: 8 gram
Completed: 07/21/26
Manifest #: 0003341831

Berkshire Roots, Inc. - Massachusetts

501A Dalton Ave
Pittsfield, MA, 01201, US
BerkshireRoots.com
License #: MC281590



SAFETY RESULTS

MISC.

									
Pesticide PASSED	Heavy Metals PASSED	Microbial PASSED	Mycotoxins PASSED	Solvents NOT TESTED	Filtration/Foreign Material NOT TESTED	Water Activity TESTED	Moisture Content TESTED	Vitamin E NOT TESTED	Terpenes TESTED



Cannabinoid

PASSED



Total THC
24.5364%



Total CBD
ND



Total Cannabinoids
28.7040%

	TOTAL CANNABINOIDS	TOTAL TAC	TOTAL THC	TOTAL CBD	THCA	D9-THC	CBDA	CBD	CBDV	CBC	THCVA	THCV	CBGA	D8-THC	CBG	CBN
%	28.7040	25.2278	24.5364	ND	27.6470	0.2900	ND	ND	ND	ND	0.1330	ND	0.4820	ND	0.1520	ND
mg/g	287.0400	252.2777	245.3642	ND	276.4700	2.9000	ND	ND	ND	ND	1.3300	ND	4.8200	ND	1.5200	ND
Qualifier																
LOD (%)	0.1000	0.0001	0.1000	0.1000	0.1000	0.1000	0.1000	0.1000	0.1000	0.1000	0.1000	0.1000	0.1000	0.1000	0.1000	0.1000
LOQ (%)	0.1000	0.0006	0.1000	0.1000	0.1000	0.1000	0.1000	0.1000	0.1000	0.1000	0.1000	0.1000	0.1000	0.1000	0.1000	0.1000

Analyzed by:
1425, 1142, 990, 1544

Weight:
0.2012g

Extraction date:
07/18/26 11:34:52

Extracted by:
1425

Analysis Method : SOP.T.30.031, SOP.T.40.031

Analytical Batch : NA029522POT

Instrument Used : NA-HPLC-004 (Potency - Flower)

Analyzed Date : 07/20/26 18:31:32

Batch Date : 07/17/26 11:31:02

Dilution : 400

Reagent : 100724.03; 062626.02; 093025.03; 050626.04; 042726.R01; 042726.R02; 062626.R03; 071326.R06; 071026.R24

Consumables : 050925CK01; N05045C; 947.114; DMAX27B25S; 04504082; 1009318699; 1011304115; 250406E; 220215E-15; GD250006; 2512041; 340056236

Pipette : NA-221 (P-10); NA-135 (P-200); NA-329 (Step)

Full spectrum cannabinoid analysis utilizing High Performance Liquid Chromatography with UV detection (HPLC-UV). (Method: SOP.T.30.031 for sample prep and Shimadzu High Sensitivity Method SOP.T.40.031 for analysis. LOQ for all cannabinoids is 0.5 mg/L). Total THC = d9THC + (THCA*0.877). Total CBD = CBD + (CBDA*0.877). Total Cannabinoids = Total of all available cannabinoids. THCVa is pending ISO accreditation.



Terpenes

TESTED

ANALYTES

		LIMIT	LOD	LOQ	RESULT(%)	(MG/G)	QUALIFIER	PASS/FAIL
TOTAL TERPENES			0.020	0.020	1.552	15.520	TESTED	
BETA-MYRCENE			0.020	0.020	0.442	4.420	TESTED	
LIMONENE			0.020	0.020	0.263	2.630	TESTED	

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Margaret Teasdale

Lab Director

State License #
IL281349
ISO 17025
Accreditation # 97164



Signature
07/21/26
Laboratory License #:
IL281349



16 Tech Circle, Suite 201
Natick, MA, 01760, US
(401) 219-1491

Kaycha Labs

M00002077052: D Sailor Finished Flower
Strain: D Sailor
Matrix: Plant Material
Classification: Raw Plant Material
Type: Flower-Cured



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Sample: NA60716005-008

501A Dalton Ave
Pittsfield, MA, 01201, US
BerkshireRoots.com
License #: MC281590

Batch #: 260624DSLF2-39a
Seed to sale: 1A40A0300000641000020078

Ordered: 07/16/26
Sampled: 07/16/26
Completed: 07/21/26

PASSED



Terpenes

TESTED

ANALYTES		LIMIT	LOD	LOQ	RESULT(%)	(MG/G)	QUALIFIER	PASS/FAIL
BETA-CARYOPHYLLENE			0.020	0.020	0.242	2.420	TESTED	
ALPHA-HUMULENE			0.020	0.020	0.078	0.780	TESTED	
LINALOOL			0.020	0.020	0.063	0.630	TESTED	
BETA-PINENE			0.020	0.020	0.062	0.620	TESTED	
ALPHA-BISABOLOL			0.020	0.020	0.052	0.520	TESTED	
ALPHA-PINENE			0.020	0.020	0.043	0.430	TESTED	
FENCHYL ALCOHOL			0.020	0.020	0.037	0.370	TESTED	
ALPHA-TERPINEOL			0.020	0.020	0.033	0.330	TESTED	
FARNESENE			0.020	0.020	0.025	0.250	TESTED	
PULEGONE			0.020	0.020	0.025	0.250	TESTED	
TERPINOLENE			0.020	0.020	0.025	0.250	TESTED	
VALENCENE			0.020	0.020	0.025	0.250	TESTED	
BORNEOL			0.020	0.020	0.024	0.240	TESTED	
CARYOPHYLLENE OXIDE			0.020	0.020	0.024	0.240	TESTED	
CAMPHENE			0.020	0.020	0.023	0.230	TESTED	
NEROL			0.020	0.020	0.023	0.230	TESTED	
GERANIOL			0.020	0.020	0.022	0.220	TESTED	
SABINENE HYDRATE			0.020	0.020	0.021	0.210	TESTED	
3-CARENE			0.020	0.020	ND	ND	TESTED	
CAMPHOR			0.020	0.020	ND	ND	TESTED	
CEDROL			0.002	0.020	ND	ND	TESTED	
EUCALYPTOL			0.020	0.020	ND	ND	TESTED	
FENCHONE			0.020	0.020	ND	ND	TESTED	
GERANYL ACETATE			0.020	0.020	ND	ND	TESTED	
GUAJOL			0.020	0.020	ND	ND	TESTED	
HEXAHYDROTHYMOL			0.020	0.020	ND	ND	TESTED	
ISOBORNEOL			0.020	0.020	ND	ND	TESTED	
ISOPULEGOL			0.020	0.020	ND	ND	TESTED	
OCIMENE			0.020	0.020	ND	ND	TESTED	
SABINENE			0.020	0.020	ND	ND	TESTED	
ALPHA-CEDRENE			0.020	0.020	ND	ND	TESTED	
ALPHA-PHELLANDRENE			0.020	0.020	ND	ND	TESTED	
ALPHA-TERPINENE			0.020	0.020	ND	ND	TESTED	
CIS-NEROLIDOL			0.020	0.020	ND	ND	TESTED	
GAMMA-TERPINENE			0.020	0.020	ND	ND	TESTED	
P-CYMENE			0.020	0.020	ND	ND	TESTED	
TRANS-NEROLIDOL			0.020	0.020	ND	ND	TESTED	

Analyzed by:
990, 1583, 1544

Weight:
0.5753g

Extraction date:
07/17/26 13:42:40

Extracted by:
1241,990

Analysis Method : SOP.T.30.064.MA, SOP.T.40.064.MA

Analytical Batch : NA029503TER

Instrument Used : NA-GCMS-002 (Terpenes)

Analyzed Date : 07/21/26 15:59:11

Batch Date : 07/17/26 08:40:36

Dilution : 10

Reagent : 070126.04; 093025.03; 061826.04; 071626.R03

Consumables : 050925CK01; IP250.009; 947.114; 2550528; 04504082; 1011304115; 1009318600; GD250006; 340056236

Pipette : NA-014 (P-200); NA-021 (P-20); NA-280 (Dispenser); NA-137 (P-1000)

Terpenoid profile screening is performed using Terpene sample preparation SOP.T.30.064.MA and analyzed using a GC-MS using Method SOP.T.40.064.MA which can screen for 39 terpenes. *p-cymene is not an accredited analyte.

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M00002077052: D Sailor Finished Flower
Strain: D Sailor
Matrix: Plant Material
Classification: Raw Plant Material
Type: Flower-Cured



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Sample: NA60716005-008

501A Dalton Ave
Pittsfield, MA, 01201, US
BerkshireRoots.com
License #: MC281590

Batch #: 260624DSLF2-39a
Seed to sale: 1A40A0300000641000020078

Ordered: 07/16/26
Sampled: 07/16/26
Completed: 07/21/26

PASSED

	Pesticide	PASSED
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ANALYTES	LIMIT	LOD	LOQ	RESULT	UNIT	QUALIFIER	PASS/FAIL
BIFENTHRIN	10	2.240	10.000	ND	ppb		PASS
BIFENAZATE	10	2.460	10.000	ND	ppb		PASS
ETOXAZOLE	10	1.790	10.000	ND	ppb		PASS
IMAZALIL	10	3.050	10.000	ND	ppb		PASS
IMIDACLOPRID	10	1.860	10.000	ND	ppb		PASS
MYCLOBUTANIL	10	2.900	10.000	ND	ppb		PASS
SPIROMESIFEN	10	2.970	10.000	ND	ppb		PASS
TRIFLOXYSTROBIN	10	1.560	10.000	ND	ppb		PASS
CYFLUTHRIN	10	3.750	10.000	ND	ppb		PASS

Analyzed by: 139, 990, 1544	Weight: 0.4971g	Extraction date: 07/18/26 16:04:38	Extracted by: 735,139
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Analysis Method : SOP.T.40.104.MA

Analytical Batch : NA029514PES

Instrument Used : NA-LCMS-001 (Pesticides),NA-LCMS-003 (Pesticides)

Batch Date : 07/17/26 08:59:22

Analyzed Date : 07/20/26 20:49:51

Dilution : 12.5

Reagent : 071926.R01; 070626.R12; 071326.R05; 041223.11; 062326.R16; 071526.R01; 070226.R03; 071026.R19; 070926.R01; 071526.R02

Consumables : N05045C; 242011899; 2550528; 1009318699; 1010164353; 1011304115; 1009318600; MO0260205038; GD250006; EEN0002656; EEZ0004584

Pipette : NA-015 (P-10); NA-202 (P-200); NA-026 (Dispenser); NA-308 (P-1000)

Pesticide screen is performed using LC-MS and GC-MS which can screen down to below single digit ppb concentrations for regulated Pesticides. Currently we analyze for 9 Pesticides. (Method: SOP.T.40.104.MA - Pesticides and Mycotoxins Analysis via LC-MSMS and SOP.T40.154.MA - Volatile Pesticide Analysis via GC-MSMS).

Analyzed by: 795, 735, 990, 1544	Weight: 0.4971g	Extraction date: 07/18/26 16:04:38	Extracted by: 735,139
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Analysis Method : SOP.T.40.154.MA, SOP.T.40.151.MA

Analytical Batch : NA029573VOL

Instrument Used : NA-GCMS-006 (Volatile Pesticides)

Batch Date : 07/19/26 11:46:35

Analyzed Date : 07/20/26 18:49:06

Dilution : 12.5

Reagent : 071926.R01; 070626.R12; 071326.R05; 041223.11; 062326.R16

Consumables : N05045C; 242011899; 2550528; 1009318699; 1010164353; 1011304115; 1009318600; MO0260205038; GD250006

Pipette : NA-015 (P-10); NA-202 (P-200); NA-026 (Dispenser); NA-308 (P-1000)

Testing for agricultural agents is performed utilizing Liquid Chromatography Triple-Quadrupole Mass Spectrometry and Gas Chromatography Triple-Quadrupole Mass Spectrometry in accordance with F.S. Rule 64ER20-39.

	Microbial	PASSED
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ANALYTES	LIMIT	LOD	LOQ	RESULT	UNIT	QUALIFIER	PASS/FAIL
TOTAL COLIFORMS	1000	10	10	ND	cfu/g		PASS
TOTAL VIABLE AEROBIC BACTERIA	100001	10	10	ND	cfu/g		PASS
BILE TOLERANT GRAM NEGATIVE BACTERIA	1000	10	10	ND	cfu/g		PASS
TOTAL YEAST AND MOLD	10000	100	100	150	cfu/g		PASS
ESCHERICHIA COLI SPECIFIC GENE	2000	2000	2000	Not Present	pass/fail		PASS
SALMONELLA SPECIFIC GENE	10000	10000	10000	Not Present	pass/fail		PASS

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07/21/26
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M00002077052: D Sailor Finished Flower
Strain: D Sailor
Matrix: Plant Material
Classification: Raw Plant Material
Type: Flower-Cured



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Sample: NA60716005-008

501A Dalton Ave
Pittsfield, MA, 01201, US
BerkshireRoots.com
License # : MC281590

Batch #: 260624DSLF2-39a
Seed to sale: 1A40A0300000641000020078

Ordered: 07/16/26
Sampled: 07/16/26
Completed: 07/21/26

PASSED

	Microbial	PASSED
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ANALYTES	LIMIT	LOD	LOQ	RESULT	UNIT	QUALIFIER	PASS/FAIL
Analyzed by: 711, 388, 990, 1544	Weight: 0.9648g	Extraction date: 07/17/26 12:02:50				Extracted by: 388,711	
Analysis Method : SOP.T.40.056C, SOP.T.40.209.MA, SOP.T.40.206.MA Analytical Batch : NA029500MIC Instrument Used : NA-PCR-001 (Microbial) Analyzed Date : 07/20/26 18:46:07 Batch Date : 07/16/26 18:05:59							
Dilution : 900 Reagent : 070226.30 Consumables : 418325238F; 8847202-2441; 08/09/22; 601537; DMAX12K25S; 2550528; 024603; 009604; 5910915; 13235252609; X002BSD18D; MKDB6516; 260126001; 25494; 250909; 0002734; 0002680; 7589004045; 7589004106; WO4870; WO4699; WO5125; 0002284; 0002285; 0002676; 0001425; 0002261; WO5170; WO4316; WO3882; WO4135; 7812001016; 0002506; 0002507; WO5078; WO4964; 0002304; 0002510; 0000659802; 0000659773; 0000658588; 1011196575; 1010204253; 1011015956; 1011151661 Pipette : NA-001 (P-20, micro); NA-008 (P-10, micro); NA-011 (P-1000, Micro); NA-007 (P-200, micro); NA-003 (P-10 multi, micro); NA-006 (P-200, micro); NA-010 (P-1000, micro); NA-005 (P-200, micro); NA-002 (P-100 multi, micro); NA-164 (P-10, micro); NA-200 (P-300 multi, micro); NA-208 (P-200, micro); NA-207 (P-20, micro); NA-206 (P-20, micro); NA-206A (P-200, micro); NA-207A (P-1000, micro); NA-318 (P-1000, micro); NA-331 (p-100 multi-channel, micro); NA-355 micro bottle top dispenser							
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.40.056C.MA) If a pathogenic Escherichia Coli or Salmonella is detected in 1g of a sample, the sample fails the microbiological-impurity testing.							

	Mycotoxins	PASSED
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ANALYTES	LIMIT	LOD	LOQ	RESULT	UNIT	QUALIFIER	PASS/FAIL
AFLATOXIN B1	20	2.010	5.000	ND	ppb		PASS
AFLATOXIN B2	20	1.955	5.000	ND	ppb		PASS
AFLATOXIN G1	20	1.823	5.000	ND	ppb		PASS
AFLATOXIN G2	20	2.100	5.000	ND	ppb		PASS
OCHRATOXIN A	20	2.194	5.000	ND	ppb		PASS
TOTAL AFLATOXINS	20	1.820	5.000	ND	ppb		PASS
Analyzed by: 139, 990, 1544	Weight: 0.4971g	Extraction date: 07/18/26 16:04:38				Extracted by: 735,139	
Analysis Method : SOP.T.40.104.MA Analytical Batch : NA029572MYC Instrument Used : NA-LCMS-001 (MYC) Analyzed Date : 07/20/26 20:48:13 Batch Date : 07/19/26 11:45:56							
Dilution : 12.5 Reagent : 071926.R01; 070626.R12; 071326.R05; 041223.11; 062326.R16; 071526.R01; 070226.R03; 071026.R19; 070926.R01; 071526.R02 Consumables : N05045C; 242011899; 2550528; 1009318699; 1010164353; 1011304115; 1009318600; MO0260205038; GD250006; EEN0002656; EEZ0004584 Pipette : NA-015 (P-10); NA-202 (P-200); NA-026 (Dispenser); NA-308 (P-1000)							
Aflatoxins B1, B2, G1, G2, and Ochratoxins A testing using LC-MS. (Method: SOP.T40.104.MA Pesticides and Mycotoxins Analysis via LC-MS/MS. LOQ 20 ppb). Total Aflatoxins (Aflatoxin B1, B2, G1, G2) must be <20 µg/Kg. Ochratoxins must be <20 µg/Kg.							

	Water Activity	TESTED
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ANALYTES	LIMIT	LOD	LOQ	RESULT	UNIT	QUALIFIER	PASS/FAIL
WATER ACTIVITY		0.010	0.100	0.533	Aw		TESTED

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Seed to sale: 1A40A0300000641000020078

Ordered: 07/16/26
Sampled: 07/16/26
Completed: 07/21/26

PASSED



Water Activity

TESTED

ANALYTES

LIMIT LOD LOQ RESULT UNIT QUALIFIER PASS/FAIL

Analyzed by:
1571, 990, 1544

Weight:
NA

Extraction date:
N/A

Extracted by:
N/A

Analysis Method : SOP.T.40.019

Analytical Batch : NA029517WAT

Instrument Used : NA-055 HygroPalm HP23-AW, Rotronic Hygropalm Meter and Probe (NA-287 and NA-288)

Batch Date : 07/17/26 09:14:46

Analyzed Date : 07/20/26 18:50:25

Dilution : N/A

Reagent : 021726.01

Consumables : GD250006; NA

Pipette : N/A



Moisture Content

TESTED

ANALYTES

LIMIT LOD LOQ RESULT UNIT QUALIFIER PASS/FAIL

MOISTURE CONTENT

0.10

1.00

10.10

%

TESTED

Analyzed by:
572, 990, 1544

Weight:
0.508g

Extraction date:
07/18/26 17:03:39

Extracted by:
572

Analysis Method : SOP.T.40.021.MA

Analytical Batch : NA029493MOI

Instrument Used : NA-038 Moisture Analyzer, NA-236 Moisture Analyzer

Analyzed Date : 07/20/26 18:47:01

Batch Date : 07/16/26 16:45:11

Dilution : N/A

Reagent : 093025.03; 032726.01

Consumables : 3143008424095D00; 1010164353; GD250006

Pipette : NA-013 (P-200)



Heavy Metals

PASSED

ANALYTES

LIMIT LOD LOQ RESULT UNIT QUALIFIER PASS/FAIL

ARSENIC

200

5.450

20.000

<20.000

ppb

PASS

CADMIUM

200

5.500

20.000

ND

ppb

PASS

MERCURY

100

3.400

5.000

ND

ppb

PASS

LEAD

500

8.000

20.000

ND

ppb

PASS

Analyzed by:
1391, 990, 1544

Weight:
0.2997g

Extraction date:
07/18/26 09:20:14

Extracted by:
1391, 1546

Analysis Method : SOP.T.30.084.MA, SOP.T.40.084.MA

Analytical Batch : NA029498HEA

Instrument Used : NA-ICPMS-002, NA-340 Multiwave 7301 Digester

Analyzed Date : 07/20/26 18:22:29

Batch Date : 07/16/26 18:04:11

Dilution : 50

Reagent : 052626.09; 052626.10; 022526.30; 060226.R08; 070326.R03; 070224.01; 093025.03; 050526.05; 032726.01

Consumables : 13312; DMAX27B25S; 1010164353; GD250006; 0002279105

Pipette : NA-125 (5mL); NA-255 (10mL Dispensette, HCL); NA-362 (5 mL Bottle Top Dispenser, Nitric Acid); NA-363 (5 mL Bottle Top Dispenser, Water, HEA)

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.30.084.MA Sample Preparation for Heavy Metals Analysis via ICP-MS and SOP.T.40.084.MA Heavy Metals Analysis via ICP-MS.

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