



Certificate of Analysis

Pages 1 of 5

PASSED



Batch #: 260716ORCHF301-20c
Production Method: Cured
Total Amount: gram
Retail Product Size: gram
Retail Serving Size: gram
Servings: 1
Metric Package #:
1A40A0300000641000020169
Metric Source Package #:
1A40A0300000641000020164

Lab ID: NA60730002-020
Ordered: 07/30/26
Sampled Date: 07/30/26
Sample Size: 8 gram
Completed: 08/04/26
Manifest #: 0003356093

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
29.0405%



Total CBD
ND



Total Cannabinoids
34.0200%

	TOTAL CANNABINOIDS	TOTAL TAC	TOTAL THC	TOTAL CBD	THCA	D9-THC	CBDA	CBD	CBDV	CBC	THCVA	THCV	CBGA	D8-THC	CBG	CBN
%	34.0200	29.9010	29.0405	ND	32.6692	0.3896	ND	ND	ND	ND	0.4269	ND	0.3920	ND	0.1423	ND
mg/g	340.2000	299.0096	290.4049	ND	326.6920	3.8960	ND	ND	ND	ND	4.2690	ND	3.9200	ND	1.4230	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:
1280, 623, 990, 1622

Weight:
0.1966g

Extraction date:
08/02/26 17:51:03

Extracted by:
623,1572,1280

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

Analytical Batch: NA029902POT

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

Analyzed Date: 08/04/26 17:50:43

Batch Date: 07/31/26 08:22:43

Dilution: 400

Reagent: 070226.09; 093025.03; 050626.05; 042726.R01; 042726.R02; 071026.R21; 080126.R02; 071026.R24

Consumables: 050925CK01; 9479291.009; DMAX18I25S; 04503068; 1009318699; 1011304115; 250406E; 220215E-15; GD250006; 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	1.975	19.750	TESTED	
BETA-MYRCENE			0.020	0.020	0.931	9.310	TESTED	
LIMONENE			0.020	0.020	0.411	4.110	TESTED	

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Margaret Teasdale

Lab Director

State License #
IL281349
ISO 17025
Accreditation # 97164



Signature
08/04/26
Laboratory License #:
IL281349



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

Kaycha Labs

M00000029921: Orange Chameleon Finished Flower
Strain: Orange Chameleon
Matrix: Plant Material
Classification: Raw Plant Material
Type: Flower-Cured



Certificate of Analysis

Pages 2 of 5

Berkshire Roots, Inc. - Massachusetts

Sample: NA60730002-020

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

Batch #: 260716ORCHF301-20c
Seed to sale: 1A40A0300000641000020169

Ordered: 07/30/26
Sampled: 07/30/26
Completed: 08/04/26

PASSED



Terpenes

TESTED

ANALYTES		LIMIT	LOD	LOQ	RESULT(%)	(MG/G)	QUALIFIER	PASS/FAIL
BETA-CARYOPHYLLENE			0.020	0.020	0.222	2.220	TESTED	
ALPHA-HUMULENE			0.020	0.020	0.069	0.690	TESTED	
BETA-PINENE			0.020	0.020	0.068	0.680	TESTED	
LINALOOL			0.020	0.020	0.062	0.620	TESTED	
GUAJOL			0.020	0.020	0.061	0.610	TESTED	
ALPHA-PINENE			0.020	0.020	0.036	0.360	TESTED	
FENCHYL ALCOHOL			0.020	0.020	0.034	0.340	TESTED	
ALPHA-BISABOLOL			0.020	0.020	0.031	0.310	TESTED	
ALPHA-TERPINEOL			0.020	0.020	0.028	0.280	TESTED	
FARNESENE			0.020	0.020	0.022	0.220	TESTED	
3-CARENE			0.020	0.020	ND	ND	TESTED	
BORNEOL			0.020	0.020	ND	ND	TESTED	
CAMPHENE			0.020	0.020	ND	ND	TESTED	
CAMPHOR			0.020	0.020	ND	ND	TESTED	
CARYOPHYLLENE OXIDE			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	
GERANIOL			0.020	0.020	ND	ND	TESTED	
GERANYL ACETATE			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	
NEROL			0.020	0.020	ND	ND	TESTED	
OCIMENE			0.020	0.020	ND	ND	TESTED	
PULEGONE			0.020	0.020	ND	ND	TESTED	
SABINENE			0.020	0.020	ND	ND	TESTED	
SABINENE HYDRATE			0.020	0.020	ND	ND	TESTED	
TERPINOLENE			0.020	0.020	ND	ND	TESTED	
VALENCENE			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:
1583, 990, 1622

Weight:
0.462g

Extraction date:
08/01/26 11:55:22

Extracted by:
1241,1583

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

Analytical Batch : NA029920TER

Instrument Used : NA-GCMS-004 (Terpenes)

Batch Date : 07/31/26 10:36:54

Analyzed Date : 08/04/26 18:15:03

Dilution : 10

Reagent : 062326.07; 093025.03; 061826.04; 072926.R26

Consumables : 050925CK01; IP250.009; 9479291.009; 8580110; 20220108; 0000662420; 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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M00000029921: Orange Chameleon Finished Flower
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Matrix: Plant Material
Classification: Raw Plant Material
Type: Flower-Cured



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Sample: NA60730002-020

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

Batch #: 260716ORCHF301-20c
Seed to sale: 1A40A0300000641000020169

Ordered: 07/30/26
Sampled: 07/30/26
Completed: 08/04/26

PASSED



Pesticide

PASSED

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, 735, 1544, 1622	Weight: 0.5529g	Extraction date: 08/02/26 11:40:37	Extracted by: 795,1621
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Analysis Method : SOP.T.40.104.MA

Analytical Batch : NA029894PES

Instrument Used : NA-LCMS-003 (Pesticides)

Batch Date : 07/30/26 17:33:04

Analyzed Date : 08/03/26 17:40:59

Dilution : 12.5

Reagent : 072926.R01; 070626.R12; 072326.R01; 120825.03; 072126.R01; 073126.R05; 072626.R05; 073126.R04; 070926.R01; 071526.R02

Consumables : 9479291.009; 8580110; 1009318699; 1011304115; 1009318600; MO0260205038; GD250006; USEEN02608; EEZ0004718

Pipette : NA-015 (P-10); NA-203 (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, 1544, 1622	Weight: 0.5529g	Extraction date: 08/02/26 11:40:37	Extracted by: 795,1621
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Analysis Method : SOP.T.40.154.MA, SOP.T.40.151.MA

Analytical Batch : NA029958VOL

Instrument Used : NA-GCMS-007 (Volatile Pesticide)

Batch Date : 08/02/26 12:49:24

Analyzed Date : 08/04/26 14:46:38

Dilution : 12.5

Reagent : 072926.R01; 070626.R12; 072326.R01; 120825.03; 072126.R01

Consumables : 9479291.009; 8580110; 1009318699; 1011304115; 1009318600; MO0260205038; GD250006

Pipette : NA-015 (P-10); NA-203 (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

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	5700	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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Lab Director

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08/04/26
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Matrix: Plant Material
Classification: Raw Plant Material
Type: Flower-Cured



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Berkshire Roots, Inc. - Massachusetts

Sample: NA60730002-020

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

Batch #: 260716ORCHF301-20c
Seed to sale: 1A40A0300000641000020169

Ordered: 07/30/26
Sampled: 07/30/26
Completed: 08/04/26

PASSED



Microbial

PASSED

ANALYTES

LIMIT

LOD

LOQ

RESULT

UNIT

QUALIFIER

PASS/FAIL

Analyzed by:
711, 990, 1622

Weight:
0.9756g

Extraction date:
07/31/26 11:46:33

Extracted by:
388,711

Analysis Method : SOP.T.40.056C, SOP.T.40.209.MA, SOP.T.40.206.MA

Analytical Batch : NA029886MIC

Instrument Used : NA-PCR-001 (Microbial)

Batch Date : 07/30/26 17:02:18

Analyzed Date : 08/04/26 17:49:03

Dilution : 900

Reagent : 062126.R04; 050526.R09; 061126.10; 050526.21; 070226.36; 102925.01

Consumables : 418325238F; 8847202-2441; 601537; DMAX12K25S; 8580110; DMAX18I25S; 022511; 009604; 5910915; 13235252609; X002BSDL8D; MKDB6516; 260126001; 25494; 250909; 0002734; 0002680; 7589004073; WO4755; WO4699; WO5125; 0002284; 0002285; 0002676; 0001425; 0002261; WO5170; 7811003002; 0002506; 0002507; WO4964; 0002304; 0002471; 0000659802; 0000659773; 0000658588; 1011196575; 1010204253; 1011015956; 1011151661; WO5134

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-333 micro bottle top dispenser; NA-355 micro bottle top dispenser; NA-356 micro bottle top dispenser; NA-357 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

ANALYTES

LIMIT

LOD

LOQ

RESULT

UNIT

QUALIFIER

PASS/FAIL

AFLATOXIN B1

20

2.010

5.000

ND

ppb

PASS

AFLATOXIN B2

20

1.960

5.000

ND

ppb

PASS

AFLATOXIN G1

20

1.820

5.000

ND

ppb

PASS

AFLATOXIN G2

20

2.100

5.000

ND

ppb

PASS

OCHRATOXIN A

20

2.190

5.000

ND

ppb

PASS

TOTAL AFLATOXINS

20

1.820

5.000

ND

ppb

PASS

Analyzed by:
139, 735, 1544, 1622

Weight:
0.5529g

Extraction date:
08/02/26 11:40:37

Extracted by:
795,1621

Analysis Method : SOP.T.40.104.MA

Analytical Batch : NA029957MYC

Instrument Used : NA-LCMS-003 (MYC)

Batch Date : 08/02/26 12:48:06

Analyzed Date : 08/03/26 17:38:32

Dilution : 12.5

Reagent : 072926.R01; 070626.R12; 072326.R01; 120825.03; 072126.R01; 073126.R05; 072626.R05; 073126.R04; 070926.R01; 071526.R02

Consumables : 9479291.009; 8580110; 1009318699; 1011304115; 1009318600; M00260205038; GD250006; USEEN02608; EEZ0004718

Pipette : NA-015 (P-10); NA-203 (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

ANALYTES

LIMIT

LOD

LOQ

RESULT

UNIT

QUALIFIER

PASS/FAIL

WATER ACTIVITY

0.010

0.100

0.518

Aw

TESTED

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License # : MC281590

Batch #: 260716ORCHF301-20c
Seed to sale: 1A40A0300000641000020169

Ordered: 07/30/26
Sampled: 07/30/26
Completed: 08/04/26

PASSED



Water Activity

TESTED

ANALYTES

LIMIT LOD LOQ RESULT UNIT QUALIFIER PASS/FAIL

Analyzed by: 1571, 1544, 1622	Weight: NA	Extraction date: N/A	Extracted by: N/A
Analysis Method : SOP.T.40.019 Analytical Batch : NA029909WAT Instrument Used : NA-055 HygroPalm HP23-AW, Rotronic Hygropalm Meter and Probe (NA-287 and NA-288) Batch Date : 07/31/26 08:55:37 Analysis Date : 08/04/26 11:56:09			
Dilution : N/A Reagent : 021726.01 Consumables : N/A; GD250006 Pipette : N/A			



Moisture Content

TESTED

ANALYTES

LIMIT LOD LOQ RESULT UNIT QUALIFIER PASS/FAIL

MOISTURE CONTENT			0.10	1.00	10.18	%	TESTED
Analyzed by: 1425, 1544, 1622	Weight: 0.505g	Extraction date: 08/01/26 09:09:33	Extracted by: 1425				
Analysis Method : SOP.T.40.021.MA							
Analytical Batch : NA029891MOI							
Instrument Used : NA-038 Moisture Analyzer,NA-236 Moisture Analyzer			Batch Date : 07/30/26 17:07:42				
Analysis Date : 08/01/26 11:02:10							
Dilution : 12.5							
Reagent : 093025.03; 032726.01							
Consumables : 3266529725075D00; 1011304115; GD250006							
Pipette : NA-013 (P-200)							



Heavy Metals

PASSED

ANALYTES

LIMIT LOD LOQ RESULT UNIT QUALIFIER PASS/FAIL

ARSENIC	200	5.450	20.000	ND	ppb	PASS
CADMIUM	200	5.500	20.000	<20.000	ppb	PASS
MERCURY	100	3.400	5.000	ND	ppb	PASS
LEAD	500	8.000	20.000	ND	ppb	PASS
Analyzed by: 1391, 1544, 1622		Weight: 0.3151g		Extraction date: 08/01/26 10:23:13		Extracted by: 1391,1546
Analysis Method : SOP.T.30.084.MA, SOP.T.40.084.MA						
Analytical Batch : NA029885HEA						
Instrument Used : NA-ICPMS-002,NA-340 Multiwave 7301 Digester				Batch Date : 07/30/26 17:01:43		
Analysis Date : 08/04/26 16:11:14						
Dilution : 50						
Reagent : 052626.09; 052626.10; 040726.02; 060226.R08; 060226.R10; 071626.R13; 050526.08; 032726.01						
Consumables : 13312; DMAX18125S; 1011304115; GD250006; 0002279105						
Pipette : NA-012 (P-200); 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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