



Certificate of Analysis

Pages 1 of 5

PASSED



Batch #: 260720TPBF1-39c
Production Method: Cured
Total Amount: gram
Retail Product Size: gram
Retail Serving Size: gram
Servings: 1
Metric Package #:
1A40A0300000641000020242
Metric Source Package #:
1A40A0300000641000020238

Lab ID: NA60813005-021
Ordered: 08/13/26
Sampled Date: 08/13/26
Sample Size: 8 gram
Completed: 08/20/26
Manifest #: 0003370529

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
21.7887%



Total CBD
ND



Total Cannabinoids
25.7660%

	TOTAL CANNABINOIDS	TOTAL TAC	TOTAL THC	TOTAL CBD	THCA	D9-THC	CBDA	CBD	CBDV	CBC	THCVA	THCV	CBGA	CBG	CBN	D8-THC
%	25.7660	22.6697	21.7887	ND	24.3030	0.4750	ND	ND	ND	ND	0.1420	ND	0.7280	0.1180	ND	ND
mg/g	257.6600	226.6972	217.8873	ND	243.0300	4.7500	ND	ND	ND	ND	1.4200	ND	7.2800	1.1800	ND	ND
Qualifier	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:
305, 990, 1623

Weight:
0.2049g

Extraction date:
08/15/26 10:49:11

Extracted by:
1280,1425

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

Analytical Batch : NA030283POT

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

Analyzed Date : 08/19/26 10:53:43

Batch Date : 08/13/26 16:19:45

Dilution : 400

Reagent : 100724.03; 080426.08; 093025.03; 050626.06; 042726.R01; 042726.R02; 080626.R01; 081126.R05; 080826.R01

Consumables : 050925CK01; 9479291.009; DMGX08E25S; 04503068; 1009318699; 1011304115; 250406E; 220215E-15; GD250006; 344051250

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	1.024	10.240	TESTED	
BETA-MYRCENE			0.020	0.020	0.388	3.880	TESTED	
BETA-CARYOPHYLLENE			0.020	0.020	0.300	3.000	TESTED	

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Margaret Teasdale

Lab Director

State License #
IL281349
ISO 17025
Accreditation # 97164



Signature
08/20/26
Laboratory License #:
IL281349



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

Kaycha Labs

M00002837532: Tropicanna Banana Finished Flower
Strain: Tropicanna Banana
Matrix: Plant Material
Classification: Raw Plant Material
Type: Flower-Cured



Certificate of Analysis

Pages 2 of 5

Berkshire Roots, Inc. - Massachusetts

Sample: NA60813005-021

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

Batch #: 260720TPBF1-39c
Seed to sale: 1A40A0300000641000020242

Ordered: 08/13/26
Sampled: 08/13/26
Completed: 08/20/26

PASSED



Terpenes

TESTED

ANALYTES		LIMIT	LOD	LOQ	RESULT(%)	(MG/G)	QUALIFIER	PASS/FAIL
ALPHA-HUMULENE			0.020	0.020	0.096	0.960	TESTED	
LIMONENE			0.020	0.020	0.087	0.870	TESTED	
ALPHA-BISABOOL			0.020	0.020	0.054	0.540	TESTED	
LINALOOL			0.020	0.020	0.051	0.510	TESTED	
GUAIOL			0.020	0.020	0.048	0.480	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	
FARNESENE			0.020	0.020	ND	ND	TESTED	
FENCHONE			0.020	0.020	ND	ND	TESTED	
FENCHYL ALCOHOL			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-PINENE			0.020	0.020	ND	ND	TESTED	
ALPHA-TERPINENE			0.020	0.020	ND	ND	TESTED	
ALPHA-TERPINEOL			0.020	0.020	ND	ND	TESTED	
BETA-PINENE			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-CYME			0.020	0.020	ND	ND	TESTED	
TRANS-NEROLIDOL			0.020	0.020	ND	ND	TESTED	

Analyzed by:
1583, 990, 1623

Weight:
0.4993g

Extraction date:
08/15/26 14:14:53

Extracted by:
1241,1583

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

Analytical Batch : NA030300TER

Instrument Used : NA-GCMS-004 (Terpenes)

Batch Date : 08/14/26 10:14:45

Analyzed Date : 08/20/26 14:55:22

Dilution : 10

Reagent : 070126.02; 093025.03; 061826.05; 080926.R02

Consumables : 050925CK01; IP250.009; 9479291.009; 1750520; 04503068; 1011304115; 1011399682; GD250006; 344051250

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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Kaycha Labs

M00002837532: Tropicanna Banana Finished Flower
Strain: Tropicanna Banana
Matrix: Plant Material
Classification: Raw Plant Material
Type: Flower-Cured



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Berkshire Roots, Inc. - Massachusetts

Sample: NA60813005-021

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

Batch #: 260720TPBF1-39c
Seed to sale: 1A40A0300000641000020242

Ordered: 08/13/26
Sampled: 08/13/26
Completed: 08/20/26

PASSED

	Pesticide	PASSED
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ANALYTES	LIMIT	LOD	LOQ	RESULT	UNIT	QUALIFIER	PASS/FAIL
BIFENTHRIN	10	2.24	10.0	ND	ppb		PASS
BIFENAZATE	10	2.46	10.0	ND	ppb		PASS
ETOXAZOLE	10	1.79	10.0	ND	ppb		PASS
IMAZALIL	10	3.05	10.0	ND	ppb		PASS
IMIDACLOPRID	10	1.86	10.0	ND	ppb		PASS
MYCLOBUTANIL	10	2.90	10.0	ND	ppb		PASS
SPIROMESIFEN	10	2.97	10.0	ND	ppb		PASS
TRIFLOXYSTROBIN	10	1.56	10.0	ND	ppb		PASS
CYFLUTHRIN	10	3.75	10.0	ND	ppb		PASS

Analyzed by: 139, 735, 1544, 1623	Weight: 0.512g	Extraction date: 08/15/26 16:10:59	Extracted by: 795,1571
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Analysis Method : SOP.T.40.104.MA

Analytical Batch : NA030294PES

Instrument Used : NA-LCMS-001 (Pesticides)

Analyzed Date : 08/18/26 12:35:18

Batch Date : 08/13/26 17:29:03

Dilution : 12.5

Reagent : 081326.R01; 081026.R03; 081026.R02; 041223.11; 081126.R01; 081526.R02; 080526.R01; 081226.R09; 080526.R02; 071526.R02

Consumables : 9479291.009; 230613-634-D; 1009318699; 1011304115; 1011399682; MO0260521091; GD250006; USEEN02608; EEZ0004584

Pipette : NA-202 (P-200); NA-026 (Dispenser); NA-285 (P-20); NA-307 (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: 735, 1544, 1623	Weight: 0.512g	Extraction date: 08/15/26 16:10:59	Extracted by: 795,1571
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Analysis Method : SOP.T.40.154.MA, SOP.T.40.151.MA

Analytical Batch : NA030359VOL

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

Analyzed Date : 08/19/26 10:17:23

Batch Date : 08/16/26 14:02:31

Dilution : 12.5

Reagent : 081326.R01; 081026.R03; 081026.R02; 041223.11; 081126.R01

Consumables : 9479291.009; 230613-634-D; 1009318699; 1011304115; 1011399682; MO0260521091; GD250006

Pipette : NA-202 (P-200); NA-026 (Dispenser); NA-285 (P-20); NA-307 (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	10.0	10.0	ND	cfu/g		PASS
TOTAL VIABLE AEROBIC BACTERIA	100001	10.0	10.0	ND	cfu/g		PASS
BILE TOLERANT GRAM NEGATIVE BACTERIA	1000	10.0	10.0	ND	cfu/g		PASS
TOTAL YEAST AND MOLD	10000	100	100	8700	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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.....
M00002837532: Tropicanna Banana Finished Flower
Strain: Tropicanna Banana
Matrix: Plant Material
Classification: Raw Plant Material
Type: Flower-Cured



Certificate of Analysis

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Berkshire Roots, Inc. - Massachusetts

Sample: NA60813005-021

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

Batch #: 260720TPBF1-39c
Seed to sale: 1A40A0300000641000020242

Ordered: 08/13/26
Sampled: 08/13/26
Completed: 08/20/26

PASSED

	Microbial	PASSED
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ANALYTES		LIMIT	LOD	LOQ	RESULT	UNIT	QUALIFIER	PASS/FAIL
Analyzed by: 388, 990, 1623		Weight: 1.0542g	Extraction date: 08/14/26 09:52:57			Extracted by: 711,1473		
Analysis Method : SOP.T.40.056C, SOP.T.40.209.MA, SOP.T.40.206.MA								
Analytical Batch : NA030279MIC								
Instrument Used : NA-PCR-001 (Microbial)				Batch Date : 08/13/26 16:12:41				
Analyzed Date : 08/19/26 10:58:26								
Dilution : 900								
Reagent : N/A								
Consumables : 418325238F; 8847202-2441; 601537; DMAX12K25S; 230613-634-D; DMAX09C26S; 022511; 009604; 5910915; 13235252609; X002BSDL8D; MKDB6516; 260126001; 25494; 250909; 0002734; 0002840; 7590004105; WO4755; WO4699; WO5125; 0002284; 0002285; 0002676; 0001425; 0002261; WO5170; WO4316; WO3882; WO4135; 7811003093; 0002506; 0002507; WO5134; WO4964; 0002304; 0002510; 0000659802; 0000659773; 0000662053; 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-356 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	2.01	5.00	ND	ppb		PASS
AFLATOXIN B2		20	1.96	5.00	ND	ppb		PASS
AFLATOXIN G1		20	1.82	5.00	ND	ppb		PASS
AFLATOXIN G2		20	2.10	5.00	ND	ppb		PASS
OCHRATOXIN A		20	2.19	5.00	ND	ppb		PASS
TOTAL AFLATOXINS		20	1.82	5.00	ND	ppb		PASS
Analyzed by: 139, 735, 1544, 1623		Weight: 0.512g		Extraction date: 08/15/26 16:10:59		Extracted by: 795,1571		
Analysis Method : SOP.T.40.104.MA Analytical Batch : NAO30358MYC Instrument Used : NA-LCMS-001 (MYC) Analyzed Date : 08/18/26 12:24:47 Batch Date : 08/16/26 13:58:39								
Dilution : 12.5 Reagent : 081326.R01; 081026.R03; 081026.R02; 041223.11; 081126.R01; 081526.R02; 080526.R01; 081226.R08; 080526.R02; 071526.R02 Consumables : 9479291.009; 230613-634-D; 1009318699; 1011304115; 1011399682; MO0260521091; GD250006; USEEN02608; EEZ0004584 Pipette : NA-202 (P-200); NA-026 (Dispenser); NA-285 (P-20); NA-307 (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		0.0100	0.100	0.521	Aw		TESTED

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Kaycha Labs

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Strain: Tropicanna Banana
Matrix: Plant Material
Classification: Raw Plant Material
Type: Flower-Cured



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Sample: NA60813005-021

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

Batch #: 260720TPBF1-39c
Seed to sale: 1A40A0300000641000020242

Ordered: 08/13/26
Sampled: 08/13/26
Completed: 08/20/26

PASSED



Water Activity

TESTED

ANALYTES

LIMIT LOD LOQ RESULT UNIT QUALIFIER PASS/FAIL

Analyzed by:
1571, 1544, 1623

Weight:
NA

Extraction date:
N/A

Extracted by:
N/A

Analysis Method : SOP.T.40.019

Analytical Batch : NA030288WAT

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

Batch Date : 08/13/26 17:16:48

Analyzed Date : 08/17/26 08:45:52

Dilution : N/A

Reagent : N/A

Consumables : N/A

Pipette : N/A



Moisture Content

TESTED

ANALYTES

LIMIT LOD LOQ RESULT UNIT QUALIFIER PASS/FAIL

MOISTURE CONTENT

0.100

1.00

8.25

%

TESTED

Analyzed by:
1572, 1544, 1623

Weight:
0.497g

Extraction date:
08/15/26 19:49:28

Extracted by:
1572

Analysis Method : SOP.T.40.021.MA

Analytical Batch : NA030287MOI

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

Analyzed Date : 08/17/26 11:20:36

Batch Date : 08/13/26 17:13:47

Dilution : N/A

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

5.45

20.0

<20.0

ppb

PASS

CADMIUM

200

5.50

20.0

<20.0

ppb

PASS

MERCURY

100

3.40

5.00

ND

ppb

PASS

LEAD

500

8.00

20.0

ND

ppb

PASS

Analyzed by:
1391, 1544, 1623

Weight:
0.2976g

Extraction date:
08/15/26 13:10:10

Extracted by:
1391, 1546

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

Analytical Batch : NA030289HEA

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

Analyzed Date : 08/17/26 08:40:07

Batch Date : 08/13/26 17:21:09

Dilution : 50

Reagent : 052626.09; 052626.10; 040726.02; 071226.R05; 080426.R02; 022426.09; 070224.01; 093025.03; 070726.01; 032726.01

Consumables : 13321; DMGX08E25S; 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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