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

Kaycha Labs

M00004053810: TestSample.SourOrange
Strain: Sour Orange
Matrix: Plant Material
Classification: Raw Plant Material
Type: Flower-Cured

Certificate of Analysis

PASSED



Batch #: 2026_08_05(398)Sour Orange_A
Production Method: Cured
Servings: 1
Metrc Package #:
1A40A030000B98D000182499
Metrc Source Package # :
1A40A030000B98D000149586

Lab ID: NA60910004-003
Ordered: 09/10/26
Sampled Date: 09/10/26
Sampling Method: State Mandated
Sample Size: 12.4 gram
Completed: 09/14/26
Manifest #: 0003400784

MassGrow LLC - Massachusetts
134 Chestnut Hill Avenue
Athol, MA, 01331, US
www.massgrowathol.com
License # : MP281460

MassGrow

SAFETY RESULTS **MISC.**

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

Cannabinoid — PASSED

Total THC
29.1060%

Total CBD
ND

Total Cannabinoids
34.6586%



	TOTAL CANNABINOIDS	TOTAL TAC	TOTAL THC	TOTAL CBD	THCA	D9-THC	CBDA	CBDV	CBD	CBC	THCVA	THCV	CBGA	CBG	CBN	D8-THC
%	34.6586	30.4700	29.1060	ND	32.7807	0.3573	ND	ND	ND	ND	0.1661	ND	1.1070	0.2475	ND	ND
mg/g	346.5860	304.6998	291.0597	ND	327.8070	3.5730	ND	ND	ND	ND	1.6610	ND	11.0700	2.4750	ND	ND
Qualifier																
LOD (%)	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	0.1000	0.1000
LOQ (%)	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	0.1000	0.1000

Analyzed by: 623, 990, 1623
Weight: 0.1948g
Extraction date: 09/11/26 11:30:00
Extracted by: 1280,1425

Analysis Method : SOP.T.30.031, SOP.T.40.031
Analytical Batch : NA030999POT
Instrument Used : NA-HPLC-004 (Potency - Flower)
Batch Date : 09/10/26 17:50:28
Analyzed Date : 09/14/26 07:19:35

Dilution : 400
Reagent : 100724.03; 082426.15; 093025.03; 080426.37; 042726.R01; 042726.R02; 082826.R04; 090526.R01; 080826.R01
Consumables : 092625CK01; 9479291.009; 2602062; 04507064; 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	0.790	7.900		TESTED
BETA-CARYOPHYLLENE		0.020	0.020	0.213	2.130		TESTED
LIMONENE		0.020	0.020	0.185	1.850		TESTED

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Margaret Teasdale
Lab Director

State License # IL281349
ISO 17025
Accreditation # 97164

Signature
09/14/26
Laboratory License #: IL281349

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www.massgrowathol.com
License # : MP281460

Sample: NA60910004-003
Batch #: 2026_08_05(398)Sour Orange_A
Seed to sale: 1A40A030000B98D000182499

Ordered: 09/10/26
Sampled: 09/10/26
Completed: 09/14/26

PASSED

Terpenes

TESTED

ANALYTES	LIMIT	LOD	LOQ	RESULT(%)	(MG/G)	QUALIFIER	PASS/FAIL
LINALOOL		0.020	0.020	0.109	1.090		TESTED
BETA-MYRCENE		0.020	0.020	0.083	0.830		TESTED
ALPHA-HUMULENE		0.020	0.020	0.066	0.660		TESTED
ALPHA-BISABOLOL		0.020	0.020	0.046	0.460		TESTED
BETA-PINENE		0.020	0.020	0.038	0.380		TESTED
ALPHA-TERPINEOL		0.020	0.020	0.028	0.280		TESTED
ALPHA-PINENE		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
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
GUAIOL		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, 1623
Weight: 0.488g
Extraction date: 09/11/26 12:16:51
Extracted by: 1583

Analysis Method : SOP.T.30.064.MA, SOP.T.40.064.MA
Analytical Batch : NA031006TER
Instrument Used : NA-GCMS-004 (Terpenes)
Batch Date : 09/11/26 09:09:49
Analyzed Date : 09/14/26 07:49:44

Dilution : 10
Reagent : 093025.03; 041025.01; 061826.07; 090226.R02
Consumables : 092625CK01; IP250.009; 9479291.009; 8580110; 04507064; 1011304115; 1009300961; 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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Classification: Raw Plant Material
Type: Flower-Cured

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www.massgrowathol.com
License # : MP281460

Sample: NA60910004-003
Batch #: 2026_08_05(398)Sour Orange_A
Seed to sale: 1A40A030000B98D000182499

Ordered: 09/10/26
Sampled: 09/10/26
Completed: 09/14/26

PASSED

Pesticide

PASSED

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, 990, 1623
Weight: 0.4667g
Extraction date: 09/11/26 13:37:19
Extracted by: 795

Analysis Method : SOP.T.40.104.MA
Analytical Batch : NA030991PES
Instrument Used : NA-LCMS-001 (Pesticides)
Analyzed Date : 09/14/26 07:48:26
Batch Date : 09/10/26 16:00:19

Dilution : 12.5
Reagent : 091026.R03; 081026.R03; 082926.R07; 090126.R03; 090626.R01; 090726.R02; 090326.R02; 080526.R02; 071526.R02
Consumables : 9479291.009; 8580110; 1009318699; 1011304115; 1009300961; MO0260521091; GD250006; EEN0002711; EEZ0004704
Pipette : NA-015 (P-10); NA-203 (P-200); NA-026 (Dispenser); NA-308 (P-1000); NA-136 (P-200)

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 vis GC-MSMS).

Analyzed by: 795, 990, 1544, 1623
Weight: 0.4667g
Extraction date: 09/11/26 13:37:19
Extracted by: 795

Analysis Method : SOP.T.40.154.MA, SOP.T.40.151.MA
Analytical Batch : NA031019VOL
Instrument Used : NA-GCMS-007 (Volatile Pesticide)
Analyzed Date : 09/12/26 09:47:57
Batch Date : 09/11/26 15:43:49

Dilution : 12.5
Reagent : 091026.R03; 081026.R03; 082926.R07; 090126.R03
Consumables : 9479291.009; 8580110; 1009318699; 1011304115; 1009300961; MO0260521091; GD250006
Pipette : NA-015 (P-10); NA-203 (P-200); NA-026 (Dispenser); NA-308 (P-1000); NA-136 (P-200)

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).

Microbial

PASSED

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	ND	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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www.massgrowathol.com
License # : MP281460

Sample: NA60910004-003
Batch #: 2026_08_05(398)Sour Orange_A
Seed to sale: 1A40A030000B98D000182499

Ordered: 09/10/26
Sampled: 09/10/26
Completed: 09/14/26

PASSED

Microbial

PASSED

ANALYTES	LIMIT	LOD	LOQ	RESULT	UNIT	QUALIFIER	PASS/FAIL

Analyzed by: 870, 990, 1623
Weight: 1.014g
Extraction date: 09/11/26 08:00:31
Extracted by: 388,1473

Analysis Method : SOP.T.40.056C, SOP.T.40.209.MA, SOP.T.40.206.MA
Analytical Batch : NA030990MIC
Instrument Used : NA-PCR-001 (Microbial)
Batch Date : 09/10/26 15:57:30
Analyzed Date : 09/14/26 07:02:54

Dilution : 900
Reagent : N/A
Consumables : 418325327A; 08/09/22; PG1821; 601537; DMAX12K25S; 8580110; 2602062; DMAX09C26S; 024603; 009604; 025603; 8580110; 13235252609; X002BSDL8D; MKDB6516; 260612001; 26204; 8847202-2441; 0002734; 0002840; 7505502056; WO4957; WO4756; WO5164; 0002284; 0002285; 0002676; 0001425; 0002261; WO4956; WO4316; WO3882; WO4135; 7811004026; 0002600; 0002507; WO5134; WO5079; 0002470; 0002510; 0000659802; 0000659773; 0000658588; 1011196575; 1010204253; 1011510474; 1011466624
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-355 micro bottle top dispenser; NA-356 micro bottle top dispenser; NA-357 micro bottle top dispenser

Microbiological testing for Fungal, Salmonella, and E. Coli via Polymerase Chain Reaction (PCR) method consisting of sample DNA amplified via tandem Polymerase Chain Reaction (PCR) as a crude lysate which avoids purification (Methods SOP.T.40.206.MA and 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. Microbiological testing for Total Aerobic, Total Coliforms, and Bile-Tolerant Gram Negative Bacteria methods utilize plating techniques.

Mycotoxins

PASSED

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, 990, 1623
Weight: 0.4667g
Extraction date: 09/11/26 13:37:19
Extracted by: 795

Analysis Method : SOP.T.40.104.MA
Analytical Batch : NA031018MYC
Instrument Used : NA-LCMS-001 (MYC)
Batch Date : 09/11/26 15:43:38
Analyzed Date : 09/14/26 07:47:30

Dilution : 12.5
Reagent : 091026.R03; 081026.R03; 082926.R07; 090126.R03; 090626.R01; 090726.R02; 090326.R02; 080526.R02; 071526.R02
Consumables : 9479291.009; 8580110; 1009318699; 1011304115; 1009300961; MO0260521091; GD250006; EEN0002711; EEZ0004704
Pipette : NA-015 (P-10); NA-203 (P-200); NA-026 (Dispenser); NA-308 (P-1000); NA-136 (P-200)

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		0.0100	0.100	0.554	Aw		TESTED

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Seed to sale: 1A40A030000B98D000182499

Ordered: 09/10/26
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PASSED

Water Activity

TESTED

ANALYTES	LIMIT	LOD	LOQ	RESULT	UNIT	QUALIFIER	PASS/FAIL

Analyzed by: 990, 1544, 1623
Weight: NA
Extraction date: N/A
Extracted by: 1557

Analysis Method : SOP.T.40.019
Analytical Batch : NA031028WAT
Instrument Used : NA-055 HygroPalm HP23-AW,Rotronic Hygropalm Meter and Probe (NA-287 and NA-288)
Batch Date : 09/11/26 16:52:13
Analyzed Date : 09/14/26 10:09:49

Dilution : N/A
Reagent : 021726.01
Consumables : GD250006; NA
Pipette : N/A

Heavy Metals

PASSED

ANALYTES	LIMIT	LOD	LOQ	RESULT	UNIT	QUALIFIER	PASS/FAIL
ARSENIC	200	6.72	10.0	<10.0	ppb		PASS
CADMIUM	200	9.26	10.0	ND	ppb		PASS
MERCURY	100	3.40	5.00	28.7	ppb		PASS
LEAD	500	8.85	10.0	48.4	ppb		PASS

Analyzed by: 1391, 990, 1623
Weight: 0.2803g
Extraction date: 09/11/26 14:17:41
Extracted by: 1391

Analysis Method : SOP.T.30.084.MA, SOP.T.40.084.MA
Analytical Batch : NA031011HEA
Instrument Used : NA-ICPMS-001,Anton-Paar Microwave Go NA-237,NA-341 Microwave Go
Batch Date : 09/11/26 09:25:24
Analyzed Date : 09/14/26 07:00:45

Dilution : 50
Reagent : 052626.09; 052626.10; 040726.02; 081826.R07; 082426.R02; 070726.05; 070224.01; 093025.03; 080626.07; 090126.01
Consumables : 13358; DMAX09C26S; 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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09/14/26
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