16 Tech Circle, Suite 201
Natick, MA, 01760, US
(301) 399-1403

Kaycha Labs

M00001130503: TestSample.HouseBlend
House Blend
Matrix: Plant Material
Type: Flower-Cured

Certificate of Analysis

Sample:NA31128002-045
Batch#: (158) RC / (155) WG
Metrc Source Package # : **1A40A0300001A91000070360**
METRC Package# 1A40A0300001A91000071407
Manifest #: 0001940848
Sample Size Received: 9.6 gram
Ordered: 11/28/23
Sampled: 11/28/23
Completed: 12/01/23
Sampling Method: State Mandated

Dec 01, 2023 | MassGrow LLC - Massachusetts

134 Chestnut Hill Avenue
Athol, MA, 01331, US
License# : MC281488

MassGrow

PASSED

PRODUCT IMAGE

SAFETY RESULTS

Pesticides	Heavy Metals	Microbials	Mycotoxins	Residuals Solvents	Filth	Water Activity	Moisture
PASSED	PASSED	PASSED	PASSED	NOT TESTED	NOT TESTED	NOT TESTED	PASSED

MISC.

Terpenes
TESTED

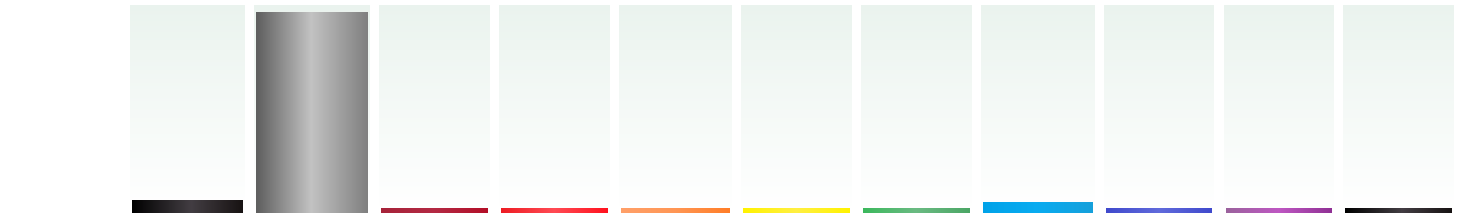
Cannabinoid

PASSED

Total THC
22.6078%

Total CBD
ND

Total Cannabinoids
23.7132%



	D9-THC	THCA	CBD	CBDA	CBG	CBN	CBDV	CBGA	THCV	CBC	D8-THC
%	1.2211	21.3867	ND	ND	0.1188	ND	ND	0.9866	ND	ND	ND
mg/g	12.211	213.867	ND	ND	1.188	ND	ND	9.866	ND	ND	ND
LOD	0.0100 %	0.0100 %	0.0100 %	0.0100 %	0.0100 %	0.0100 %	0.0100 %	0.0100 %	0.0100 %	0.0100 %	0.0100 %
LOQ	0.1000 %	0.1000 %	0.1000 %	0.1000 %	0.1000 %	0.1000 %	0.1000 %	0.1000 %	0.1000 %	0.1000 %	0.1000 %

Analyzed by:
787, 81, 795

Weight:
0.2002g

Extraction date:
11/29/23 12:08:20

Extracted by:
787

Analysis Method : SOP.T.30.031, SOP.T.40.031
Analytical Batch : NA010095POT
Instrument Used : NA-HPLC-004 (Potency - Flower)
Analyzed Date : 11/29/23 15:22:40

Reviewed On : 11/30/23 11:33:35
Batch Date : 11/28/23 16:10:02

Dilution : 400
Reagent : 111423.23; 112823.05; 091423.23; 112823.02; 111423.05; 112823.R03; 112223.R04
Consumables : 04303032; 9479291.271; 9479291.100; 1; A191022C; 264271; 105C4-105AJ; 220215E; 220123E-6; 309121134
Pipette : NA-014 (P-200); NA-017 (P-20); NA-020 (P-1000), 383166K

Full spectrum cannabinoid analysis utilizing High Performance Liquid Chromatography with UV detection (HPLC-UV). (Method: SOP.T.30.050 for sample prep and Shimadzu High Sensitivity Method SOP.T.40.020 for analysis. LOQ for all cannabinoids is 1 mg/L). Total THC = d9THC + THCA. Total CBD = CBD + CBDA. Total Cannabinoids = Total of all available cannabinoids.

Rene Schalk
Lab Director

State License # IL281349
ISO 17025 Accreditation # 97164

Signature
12/01/23

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House Blend
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Type: Flower-Cured

Certificate of Analysis

PASSED

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Athol, MA, 01331, US
Telephone: (978) 868-2044
Email: lrochelau@massgrowathol.com
License# : MC281488

Sample : NA31128002-045
Batch# : (158) RC / (155) WG
Sampled : 11/28/23
Ordered : 11/28/23
Sample Size Received : 9.6 gram
Completed : 12/01/23 **Expires:** 12/01/24
Sample Method : State Mandated

Terpenes

TESTED

Terpenes	LOD (%)	LOQ (%)	mg/g	%	Result (%)
BETA-CARYOPHYLLENE	0.002	0.020	4.35	0.435	
LIMONENE	0.002	0.020	4.29	0.429	
BETA-MYRCENE	0.002	0.020	1.83	0.183	
ALPHA-HUMULENE	0.002	0.020	1.13	0.113	
LINALOOL	0.002	0.020	0.93	0.093	
FARNESENE	0.002	0.020	0.92	0.092	
TRANS-NEROLIDOL	0.002	0.020	0.91	0.091	
TOTAL TERPINEOL	0.002	0.020	0.75	0.075	
BETA-PINENE	0.002	0.020	0.74	0.074	
FENCHYL ALCOHOL	0.002	0.020	0.67	0.067	
ALPHA-PINENE	0.002	0.020	0.57	0.057	
GERANIOL	0.002	0.020	0.47	0.047	
ALPHA-BISABOLOL	0.002	0.020	0.35	0.035	
TERPINOLENE	0.002	0.020	0.31	0.031	
CARYOPHYLLENE OXIDE	0.002	0.020	0.20	0.020	
ISOPULEGOL	0.002	0.020	0.20	0.020	
SABINENE HYDRATE	0.002	0.020	<0.20	<0.020	
3-CARENE	0.002	0.020	ND	ND	
BORNEOL	0.002	0.020	ND	ND	
CAMPHENE	0.002	0.020	ND	ND	
CAMPHOR	0.002	0.020	ND	ND	
CEDROL	0.002	0.020	ND	ND	
EUCALYPTOL	0.002	0.020	ND	ND	
FENCHONE	0.002	0.020	ND	ND	
GERANYL ACETATE	0.002	0.020	ND	ND	
GUAIOL	0.002	0.020	ND	ND	
HEXAHYDROTHYMOL	0.002	0.020	ND	ND	
ISOBORNEOL	0.002	0.020	ND	ND	
NEROL	0.002	0.020	ND	ND	
OCIMENE	0.002	0.020	ND	ND	
PULEGONE	0.002	0.020	ND	ND	
Total (%)			1.862		

Terpenes	LOD (%)	LOQ (%)	mg/g	%	Result (%)
SABINENE	0.002	0.020	ND	ND	
VALENCENE	0.002	0.020	ND	ND	
ALPHA-CEDRENE	0.002	0.020	ND	ND	
ALPHA-PHELLANDRENE	0.002	0.020	ND	ND	
ALPHA-TERPINENE	0.002	0.020	ND	ND	
CIS-NEROLIDOL	0.002	0.020	ND	ND	
GAMMA-TERPINENE	0.002	0.020	ND	ND	
P-CYMENE	0.002	0.020	ND	ND	

Analyzed by: 623, 81, 795
Weight: 0.5644g
Extraction date: 11/29/23 12:57:54
Extracted by: 623

Analysis Method : SOP.T.30.064.MA, SOP.T.40.064.MA
Analytical Batch : NA010089TER
Instrument Used : NA-GCMS-002 (terpenes)
Analyzed Date : 11/29/23 16:16:25
Reviewed On : 11/30/23 14:43:39
Batch Date : 11/28/23 15:37:06

Dilution : 10
Reagent : 091423.23; 111423.26; 102123.09; 101023.R32; 110623.R05
Consumables : 04303032; 9479291.271; 9479291.100; 1; 7731020; 1; 1008627709; 105C4-105AJ; GD210011; 304011027
Pipette : NA-016 (P-1000), 365592J; NA-012 (P-200); NA-017 (P-20)

Terpenoid profile screening is performed using Terpene sample preparation SOP.T.30.094.MA and analyzed using a GC-MS using Method SOP.T.40.094.MA which can screen for 39 terpenes. *p-cymene is not an accredited analyte.

Rene Schalk
Lab Director

State License # IL281349
ISO 17025 Accreditation # 97164

Signature
12/01/23

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Kaycha Labs

M00001130503: TestSample.HouseBlend
House Blend
Matrix : Plant Material
Type: Flower-Cured

Certificate of Analysis

PASSED

MassGrow LLC - Massachusetts

134 Chestnut Hill Avenue
Athol, MA, 01331, US
Telephone: (978) 868-2044
Email: lrochelau@massgrowathol.com
License# : MC281488

Sample : NA31128002-045
Batch# : (158) RC / (155) WG
Sampled : 11/28/23
Ordered : 11/28/23
Sample Size Received : 9.6 gram
Completed : 12/01/23 **Expires:** 12/01/24
Sample Method : State Mandated

Pesticides

PASSED

Pesticide	LOD	LOQ	Units	Action Level	Pass/Fail	Result
BIFENTHRIN	2.240	10.000	ppb	10	PASS	ND
BIFENAZATE	2.460	10.000	ppb	10	PASS	ND
ETOXAZOLE	1.790	10.000	ppb	10	PASS	ND
IMAZALIL	3.050	10.000	ppb	10	PASS	ND
IMIDACLOPRID	1.860	10.000	ppb	10	PASS	ND
MYCLOBUTANIL	2.900	10.000	ppb	10	PASS	ND
SPIROMESIFEN	2.970	10.000	ppb	10	PASS	ND
TRIFLOXYSTROBIN	1.560	10.000	ppb	10	PASS	ND

Pesticide	LOD	LOQ	Units	Action Level	Pass/Fail	Result
CYFLUTHRIN *	3.750	10.000	ppb	10	PASS	ND

Analyzed by: 139, 81, 795 | **Weight:** 0.471g | **Extraction date:** 11/29/23 13:57:17 | **Extracted by:** 414

Analysis Method : SOP.T.40.104.MA
Analytical Batch : NA010086PES
Instrument Used : NA-LCMS-001 (PES)
Analyzed Date : 11/29/23 16:22:55
Reviewed On : 11/30/23 11:29:29
Batch Date : 11/28/23 15:30:46

Dilution : 12.5
Reagent : 111623.R02; 091423.23; 110623.R03; 111623.R03; 060922.01
Consumables : 9479291.271; 9479291.100; 7731020; A191022C; USEEN01930; USEEZ03168; 6644192-01; 264271; 220318-306-D; 23-47; 55447-U
Pipette : NA-016 (P-1000), 365592J; NA-012 (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.40.064.MA Pesticides and Mycotoxins Analysis via LC-MSMS and SOP.T40.074.MA Volatile Pesticide Analysis vis GC-MSMS).

Analyzed by: 414, 81, 795 | **Weight:** 0.471g | **Extraction date:** 11/29/23 13:57:17 | **Extracted by:** 414

Analysis Method : SOP.T.40.154.MA
Analytical Batch : NA010107VOL
Instrument Used : NA-GCMS-001 (pesticide)
Analyzed Date : 11/29/23 15:19:45
Reviewed On : 11/30/23 11:27:43
Batch Date : 11/29/23 14:14:19

Dilution : 12.5
Reagent : 111623.R02; 091423.23; 110623.R03; 111623.R03; 060922.01
Consumables : 9479291.271; 9479291.100; 7731020; A191022C; USEEN01930; USEEZ03168; 6644192-01; 264271; 220318-306-D; 23-47; 55447-U
Pipette : NA-016 (P-1000), 365592J; NA-012 (P-200)

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.

Rene Schalk
Lab Director

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ISO 17025 Accreditation # 97164

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Kaycha Labs

M00001130503: TestSample.HouseBlend
House Blend
Matrix : Plant Material
Type: Flower-Cured

Certificate of Analysis

PASSED

MassGrow LLC - Massachusetts

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Athol, MA, 01331, US
Telephone: (978) 868-2044
Email: lrochelau@massgrowathol.com
License# : MC281488

Sample : NA31128002-045
Batch# : (158) RC / (155) WG
Sampled : 11/28/23
Ordered : 11/28/23
Sample Size Received : 9.6 gram
Completed : 12/01/23 **Expires:** 12/01/24
Sample Method : State Mandated

Microbial — PASSED

Analyte	LOD	Units	Result	Pass / Fail	Action Level
TOTAL COLIFORMS	10	cfu/g	ND	PASS	1000
TOTAL VIABLE AEROBIC BACTERIA	10	cfu/g	ND	PASS	100000
BILE TOLERANT GRAM NEGATIVE BACTERIA	10	cfu/g	ND	PASS	1000
TOTAL YEAST AND MOLD	100	cfu/g	ND	PASS	10000
ESCHERICHIA COLI SPECIFIC GENE			Not Present	PASS	
SALMONELLA SPECIFIC GENE			Not Present	PASS	

Analyzed by: 711, 388, 81, 795
Weight: 1.0896g
Extraction date: 11/29/23 09:31:05
Extracted by: 711

Analysis Method : SOP.T.40.056C, SOP.T.40.029.MA, SOP.T.40.026.MA, SOP.T.40.206.MA
Analytical Batch : NA010080MIC
Instrument Used : NA-PCR-001 (Microbial)
Analyzed Date : 11/29/23 13:39:49
Reviewed On : 12/01/23 12:17:19
Batch Date : 11/28/23 15:24:21

Dilution : 900
Reagent : N/A
Consumables : 011303; 310302; 007303; 007109; 249633; 112121CK01; 1800430; 210817058; L132133H; 211108-071-B; 1008741089; TJ080G; 41513; 21134; 7568002029; WO3615; WO3347; WO3565; 0001222; 0001280; 0001061; 0001222; 0001237; 0001316; 0001222; 0001291; 7801004081; 0001072; 0001155; WO3574; WO3575; 0001014; 0001014; 0000567165; 0000551559; 000051694
Pipette : NA-001; NA-008; NA-011; NA-007; NA-009; NA-003; NA-006; NA-004; NA-010; NA-005; NA-002; NA-164; NA-208; NA-208A; NA-207; NA-206; NA-206A; NA-207A; NA-212 Micro bottle top dispenser; NA-213 Micro bottle top dispenser

Mycotoxins — PASSED

Analyte	LOD	LOQ	Units	Result	Pass / Fail	Action Level
AFLATOXIN B1	2.010	5.000	ppb	ND	PASS	20
AFLATOXIN B2	1.955	5.000	ppb	ND	PASS	20
AFLATOXIN G1	1.823	5.000	ppb	ND	PASS	20
AFLATOXIN G2	2.100	5.000	ppb	ND	PASS	20
OCHRATOXIN A	2.194	5.000	ppb	ND	PASS	20
TOTAL AFLATOXINS	1.820	5.000	ppb	ND	PASS	20

Analyzed by: 139, 81, 795
Weight: 0.471g
Extraction date: 11/29/23 13:57:17
Extracted by: 414

Analysis Method : SOP.T.40.104.MA
Analytical Batch : NA010106MYC
Instrument Used : NA-LCMS-001 (MYC)
Analyzed Date : 11/29/23 16:23:58
Reviewed On : 11/30/23 11:31:00
Batch Date : 11/29/23 14:13:33

Dilution : 12.5
Reagent : 111623.R02; 091423.23; 110623.R03; 111623.R03; 060922.01
Consumables : 9479291.271; 9479291.100; 7731020; A191022C; USEEN01930; USEEZ03168; 6644192-01; 264271; 220318-306-D; 23-47; 55447-U
Pipette : NA-016 (P-1000), 365592J; NA-012 (P-200)

Aflatoxins B1, B2, G1, G2, and Ochratoxins A testing using LC-MS. (Method: SOP.T40.064.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.

Heavy Metals — PASSED

Metal	LOD	LOQ	Units	Result	Pass / Fail	Action Level
ARSENIC	6.720	10.000	ppb	ND	PASS	200
CADMIUM	9.260	10.000	ppb	ND	PASS	200
MERCURY	3.400	5.000	ppb	5.185	PASS	100
LEAD	8.850	10.000	ppb	12.146	PASS	500

Analyzed by: 666, 687, 81, 795
Weight: 0.4072g
Extraction date: 11/29/23 11:47:39
Extracted by: 666,687

Analysis Method : SOP.T.30.084, SOP.T.40.084.MA
Analytical Batch : NA010100HEA
Instrument Used : NA-ICPMS-001
Analyzed Date : 11/29/23 14:30:44
Reviewed On : 11/30/23 11:26:36
Batch Date : 11/29/23 08:17:50

Dilution : 50
Reagent : 081921.02; 082523.13; 101023.R02; 101023.R03; 103123.R04; 112923.R01; 110823.01; 092523.15; 040123.01
Consumables : A191022C; 12652; 220001; 264271; 105C4
Pipette : NA-016 (P-1000), 365592J; NA-203 (P-200); NA-284

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.30.054.MA Sample Preparation for Heavy Metals Analysis via ICP-MS and SOP.T.40.054.MA Heavy Metals Analysis via ICP-MS.

Rene Schalk
Lab Director

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ISO 17025 Accreditation # 97164

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12/01/23

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Matrix : Plant Material
Type: Flower-Cured

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License# : MC281488

Sample : NA31128002-045
Batch# : (158) RC / (155) WG
Sampled : 11/28/23
Ordered : 11/28/23

Sample Size Received : 9.6 gram
Completed : 12/01/23 **Expires:** 12/01/24
Sample Method : State Mandated

Moisture

PASSED

Analyte	LOD	Units	Result	P/F	Action Level
Moisture Content	0.100	%	12.380	TESTED	

Analyzed by:	Weight:	Extraction date:	Extracted by:
687, 81, 795	0.534g	11/29/23 16:37:20	687

Analysis Method : SOP.T.40.021.MA
Analytical Batch : NA010091MOI
Reviewed On : 11/30/23 11:31:50
Instrument Used : NA-038 Moisture Analyzer,NA-236 Moisture Analyzer
Batch Date : 11/28/23 15:51:12
Analyzed Date : N/A

Dilution : N/A
Reagent : N/A
Consumables : MOC63U; 105C4-105AJ; GD210011
Pipette : NA-203 (P-200)

Moisture Content analysis is performed by using a moisture analyzer balance using SOP.T.40.011.MA

Rene Schalk
Lab Director

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12/01/23