



Certificate of Analysis

Sample: NA31127001-004

Batch#: (159) RD / (160) SD

Metric Source Package # :

1A40A0300001A91000070602

METRC Package# 1A40A0300001A91000070606

Manifest #: 0001940329

Sample Size Received: 15.1 gram

Ordered: 11/27/23

Sampled: 11/27/23

Completed: 11/29/23

Sampling Method: State Mandated

PASSED

Nov 29, 2023 | MassGrow LLC -

Massachusetts

134 Chestnut Hill Avenue

Athol, MA, 01331, US

License# : MC281488

MassGrow

Pages 1 of 5

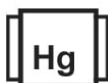
PRODUCT IMAGE



SAFETY RESULTS



Pesticides
PASSED



Heavy Metals
PASSED



Microbials
PASSED



Mycotoxins
PASSED



Residuals Solvents
NOT TESTED



Filtration
NOT TESTED



Water Activity
NOT TESTED



Moisture
PASSED



Terpenes
TESTED

MISC.



Cannabinoid

PASSED



Total THC

30.8731%



Total CBD

ND



Total Cannabinoids

31.9025%

	D9-THC	THCA	CBD	CBDa	CBG	CBN	CBDV	CBGA	THCV	CBC	D8-THC
%	1.2434	29.6297	ND	ND	0.1847	ND	ND	0.8447	ND	ND	ND
mg/g	12.434	296.297	ND	ND	1.847	ND	ND	8.447	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:
688, 787, 81

Weight:
0.2058g

Extraction date:
11/27/23 16:51:57

Extracted by:
787

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

Analytical Batch : NA010067POT

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

Analysis Date : 11/28/23 11:03:10

Reviewed On : 11/29/23 10:24:21

Batch Date : 11/27/23 13:17:25

Dilution : 400

Reagent : 091523.02; 063023.03; 091423.23; 111423.16; 102723.05; 110923.R09; 112223.R04

Consumables : 04303032; 9479291.271; 9479291.271; 112121CK01; A191022C; 264271; 105C4-105A; 220215E; 220123E-6; R1KB45278

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.

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Rene Schalk

Lab Director

State License # IL281349
ISO 17025 Accreditation # 97164



Signature
11/29/23



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

Kaycha Labs

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



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Terpenes

TESTED

Terpenes	LOD (%)	LOQ (%)	mg/g	%	Result (%)	Terpenes	LOD (%)	LOQ (%)	mg/g	%	Result (%)
LIMONENE	0.002	0.020	9.15	0.915		SABINENE	0.002	0.020	ND	ND	
BETA-CARYOPHYLLENE	0.002	0.020	3.93	0.393		TERPINOLENE	0.002	0.020	ND	ND	
BETA-MYRCENE	0.002	0.020	2.04	0.204		VALENCENE	0.002	0.020	ND	ND	
LINALOOL	0.002	0.020	1.72	0.172		ALPHA-CEDRENE	0.002	0.020	ND	ND	
ALPHA-PINENE	0.002	0.020	1.65	0.165		ALPHA-PHELLANDRENE	0.002	0.020	ND	ND	
FARNESENE	0.002	0.020	1.59	0.159		ALPHA-TERPINENE	0.002	0.020	ND	ND	
BETA-PINENE	0.002	0.020	1.38	0.138		GAMMA-TERPINENE	0.002	0.020	ND	ND	
TOTAL TERPINEOL	0.002	0.020	1.17	0.117		P-CYMENTE	0.002	0.020	ND	ND	
OCIMENE	0.002	0.020	1.09	0.109							
FENCHYL ALCOHOL	0.002	0.020	1.05	0.105							
ALPHA-HUMULENE	0.002	0.020	1.02	0.102							
TRANS-NEROLIDOL	0.002	0.020	0.54	0.054							
GERANIOL	0.002	0.020	0.51	0.051							
GUAJOL	0.002	0.020	0.49	0.049							
ALPHA-BISABOLOL	0.002	0.020	0.30	0.030							
CARYOPHYLLENE OXIDE	0.002	0.020	0.24	0.024							
ISOPULEGOL	0.002	0.020	0.24	0.024							
GERANYL ACETATE	0.002	0.020	0.23	0.023							
BORNEOL	0.002	0.020	0.21	0.021							
SABINENE HYDRATE	0.002	0.020	0.21	0.021							
CIS-NEROLIDOL	0.002	0.020	<0.20	<0.020							
3-CARENE	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							
HEXAHYDROTHYMOL	0.002	0.020	ND	ND							
ISOBORNEOL	0.002	0.020	ND	ND							
NEROL	0.002	0.020	ND	ND							
PULEGONE	0.002	0.020	ND	ND							
Total (%)			2.876								

Analyzed by: 623, 81, 688 Weight: 0.53022g Extraction date: 11/28/23 12:47:55 Extracted by: 623
Analysis Method : SOP.T.30.064.MA, SOP.T.40.064.MA
Analytical Batch : NA010070TER
Instrument Used : NA-GCMS-002 (terpenes)
Analyzed Date : 11/28/23 14:45:11
Reviewed On : 11/29/23 10:25:44
Batch Date : 11/28/23 08:26:56
Dilution : 10
Reagent : 091423.23; 111423.26; 102123.09; 101023.R32; 110623.R05
Consumables : 04303032; 9479291.271; 9479291.100; 112121CK01; 7731020; 1; 1008627709; 105C4; GD210011; 309121134
Pipette : NA-017 (P-20); NA-020 (P-1000), 383166K; NA-203 (P-200)
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.

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Rene Schalk

Lab Director

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House Blend
Matrix : Plant Material
Type: Flower-Cured



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Pesticides

PASSED

Pesticide	LOD	LOQ	Units	Action Level	Pass/Fail	Result	Pesticide	LOD	LOQ	Units	Action Level	Pass/Fail	Result
BIFENTHRIN	2.240	10.000	ppb	10	PASS	ND	CYFLUTHRIN *	3.750	10.000	ppb	10	PASS	ND
BIFENAZATE	2.460	10.000	ppb	10	PASS	ND	Analyzed by:	Weight:	Extraction date:	Extracted by:			
ETOXAZOLE	1.790	10.000	ppb	10	PASS	ND	414, 81, 688	0.4875g	11/27/23 15:43:27	414			
IMAZALIL	3.050	10.000	ppb	10	PASS	ND	Analysis Method : SOP.T.40.104.MA			Reviewed On : 11/29/23 10:22:20			
IMIDACLOPRID	1.860	10.000	ppb	10	PASS	ND	Analytical Batch :NA010069PES			Batch Date : 11/27/23 15:27:47			
MYCLOBUTANIL	2.900	10.000	ppb	10	PASS	ND	Instrument Used :NA-LCMS-003 (PES)						
SPIROMESIFEN	2.970	10.000	ppb	10	PASS	ND	Analyzed Date :11/28/23 10:32:23						
TRIFLOXYSTROBIN	1.560	10.000	ppb	10	PASS	ND	Dilution : 12.5						
							Reagent : 091423.23; 110623.R03; 111623.R03; 060922.01; 111623.R01; 111023.R01						
							Consumables : 9479291.271; 9479291.271; 7731020; A191022C; USEEN01930; USEEZ03170; 6644192-01; 264271; 105C4-105AJ; 108389-102-061621; 16868604						
							Pipette : NA-01B (P-1000), 365597; NA-013 (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:	Weight:	Extraction date:	Extracted by:			
							414, 81, 688	0.4875g	11/27/23 15:43:27	414			
							Analysis Method : SOP.T.40.154.MA			Reviewed On : 11/29/23 10:23:23			
							Analytical Batch :NA010072VOL			Batch Date : 11/28/23 09:36:15			
							Instrument Used :NA-GCMS-001 (pesticide)						
							Analyzed Date :11/28/23 10:32:36						
							Dilution : 12.5						
							Reagent : 091423.23; 110623.R03; 111623.R03; 060922.01; 111623.R01; 111023.R01						
							Consumables : 9479291.271; 9479291.271; 7731020; A191022C; USEEN01930; USEEZ03170; 6644192-01; 264271; 105C4-105AJ; 108389-102-061621; 16868604						
							Pipette : NA-01B (P-1000), 365597; NA-013 (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.						

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Microbial PASSED						 Mycotoxins PASSED						
Analyte	LOD	Units	Result	Pass / Fail	Action Level	Analyte	LOD	LOQ	Units	Result	Pass / Fail	Action Level
TOTAL COLIFORMS	10	cfu/g	ND	PASS	1000	AFLATOXIN B1	2.010	5.000	ppb	ND	PASS	20
TOTAL VIABLE AEROBIC BACTERIA	10	cfu/g	ND	PASS	100000	AFLATOXIN B2	1.960	5.000	ppb	ND	PASS	20
BILE TOLERANT GRAM NEGATIVE BACTERIA	10	cfu/g	ND	PASS	1000	AFLATOXIN G1	1.820	5.000	ppb	ND	PASS	20
TOTAL YEAST AND MOLD	100	cfu/g	ND	PASS	10000	AFLATOXIN G2	2.100	5.000	ppb	ND	PASS	20
ESCHERICHIA COLI SPECIFIC GENE			Not Present	PASS		OCHRATOXIN A	2.190	5.000	ppb	ND	PASS	20
SALMONELLA SPECIFIC GENE			Not Present	PASS		TOTAL AFLATOXINS	1.820	5.000	ppb	ND	PASS	20
Analyzed by: 388, 81, 688	Weight: 1.0823g	Extraction date: 11/27/23 13:31:22	Extracted by: 711			Analyzed by: 414, 81, 688	Weight: 0.4875g	Extraction date: 11/27/23 15:43:27	Extracted by: 414			
Analysis Method : SOP.T.40.056C, SOP.T.40.029.MA, SOP.T.40.026.MA, SOP.T.40.206.MA Analytical Batch : NA010063MIC Instrument Used : NA-PCR-001 (Microbial) Analyzed Date : N/A						Analysis Method : SOP.T.40.104.MA Analytical Batch : NA010071MYC Instrument Used : NA-LCMS003 (MYC) Analyzed Date : 11/28/23 10:32:27 Dilution : 12.5 Reagent : 091423.23; 110623.R03; 111623.R03; 060922.01; 111623.R01; 111023.R01 Consumables : 9479291.271; 9479291.271; 7731020; A191022C; USEEN01930; USEEZ03170; 6644192-01; 264271; 105C4-105A; 108389-102-061621; 16868604 Pipette : NA-018 (P-1000), 365597; NA-013 (P-200)						
Dilution : 900 Reagent : N/A Consumables : 33RYMA; 011303; 310302; 007303; 238250; 011122CK01; 1800430; 210817058; L132133H; 211108-071-B; 1008645998; TJ160G; 41513; 21134; 221016; 7565004036; WO3584; WO3565; WO3525; 0001222; 0001280; 0001222; 0001061; 0001237; 0000888; 0001222; 0001284; 7801004085; 0001072; 0001155; WO3574; WO3515; 0001014; 0001014; 0000551560; 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						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	ND	PASS	100						
LEAD	8.850	10.000	ppb	ND	PASS	500						
Analyzed by: 666, 81, 688							Weight: 0.5785g	Extraction date: 11/28/23 11:00:42	Extracted by: 666			
Analysis Method : SOP.T.30.084, SOP.T.40.084.MA Analytical Batch : NA010066HEA Instrument Used : NA-ICPMS-001 Analyzed Date : 11/28/23 13:34:29							Reviewed On : 11/29/23 10:23:49 Batch Date : 11/27/23 13:11:51					
Dilution : 50 Reagent : 081921.02; 082523.13; 101023.R02; 101023.R03; 103123.R04; 110823.01; 092523.15; 040123.01 Consumables : A191022C; 12652; 220001; 264271; 105C4 Pipette : NA-016 (P-1000), 365592; 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.												

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Moisture

PASSED

Analyte	LOD	Units	Result	P/F	Action Level
Moisture Content	0.100	%	14.480	TESTED	
Analyzed by: 688, 81	Weight: 0.511g	Extraction date: 11/28/23 10:35:46	Extracted by: 688		
Analysis Method : SOP.T.40.021.MA					
Analytical Batch : NA010068MOI			Reviewed On : 11/29/23 10:28:50		
Instrument Used : NA-038 Moisture Analyzer,NA-236 Moisture Analyzer			Batch Date : 11/27/23 14:46:28		
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

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