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

Kaycha Labs

MAMA Bulk
Matrix: Cannabis Resin and Concentrates
Classification: Inhalable Concentrate
Type: Distillate

Certificate of Analysis

PASSED

Harvest/Lot ID: 260209-MAMA
Batch #: 260209-MAMA
Production Method: Ethanol
Retail Product Size: 1 gram
Retail Serving Size: 1 gram
Servings: 1
Metrc Package #:
1A40A030000012F000230454
Metrc Source Package # :
1A40A030000012F000230453

Lab ID: NA60210005-037
Ordered: 02/10/26
Sampled Date: 02/10/26
Sample Size: 7.08 gram
Completed: 02/16/26

INSA - Massachusetts
122 Pleasant Street
Easthampton, MA, 01027, US
myinsa.com
License # : MP281426

SAFETY RESULTS | **MISC.**

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

Cannabinoid — PASSED

Total THC
80.7600%

Total CBD
ND

Total Cannabinoids
85.3430%

	TOTAL CANNABINOIDS	TOTAL TAC	TOTAL THC	TOTAL CBD	THCA	D9-THC	CBDA	CBD	CBDV	CBC	THCVA	THCV	CBGA	D8-THC	CBG	CBN
%	85.3430	85.3430	80.7600	ND	ND	80.7600	ND	ND	ND	0.5530	ND	0.5400	ND	ND	3.2250	0.2650
mg/g	853.4300	853.4300	807.6000	ND	ND	807.6000	ND	ND	ND	5.5300	ND	5.4000	ND	ND	32.2500	2.6500
LOD	0.0010	0.0001	0.0010	0.0010	0.2000	0.0010	0.2000	0.2000	0.2000	0.2000	0.2000	0.2000	0.2000	0.2000	0.0100	0.2000
LOQ	0.0100	0.0006	0.0100	0.0100	0.2000	0.0100	0.2000	0.2000	0.2000	0.2000	0.2000	0.2000	0.2000	0.2000	0.0010	0.2000
	%	%	%	%	%	%	%	%	%	%	%	%	%	%	%	%
Qualifier																

Analyzed by:
1425, 305, 990, 1172

Weight:
0.0915g

Extraction date:
02/12/26 09:21:40

Extracted by:
1280,1425

Analysis Method : SOP.T.30.031, SOP.T.40.031
Analytical Batch : NA025367POT
Instrument Used : NA-HPLC-003 (Potency - High Conc. Derivatives)
Batch Date : 02/09/26 16:34:31
Analyzed Date : 02/15/26 20:49:04

Dilution : 400
Reagent : 100724.03; 070224.01; 020626.07; 121925.06; 010526.R03; 010526.R04; 020526.R04; 020426.R09; 021126.R01
Consumables : 010924CK01; 9291.114; 9479291.114; 052925CH01; 04507064; 1008646012; 1008855823; 210118R; 220215E-15; GD25001; 339114210; 23-47
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	LOD	LOQ	LIMIT	PASS/FAIL	RESULT (%)	(MG/G)	QUALIFIER
TOTAL TERPENES	0.020	0.020		TESTED	2.845	28.450	
BETA-MYRCENE	0.020	0.020		TESTED	1.024	10.240	
ALPHA-PINENE	0.020	0.020		TESTED	0.430	4.300	
BETA-CARYOPHYLLENE	0.020	0.020		TESTED	0.361	3.610	

Margaret Teasdale
Lab Director

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ISO 17025
Accreditation # 97164

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License # : MP281426

Sample: NA60210005-037
Batch #: 260209-MAMA
Harvest/Lot ID: 260209-MAMA
Seed to sale: 1A40A030000012F000230454

Ordered: 02/10/26
Sampled: 02/10/26
Completed: 02/16/26

PASSED

Terpenes

TESTED

ANALYTES	LOD	LOQ	LIMIT	PASS/FAIL	RESULT (%)	(MG/G)	QUALIFIER
LIMONENE	0.020	0.020		TESTED	0.226	2.260	
BETA-PINENE	0.020	0.020		TESTED	0.225	2.250	
LINALOOL	0.020	0.020		TESTED	0.146	1.460	
ALPHA-BISABOLOL	0.020	0.020		TESTED	0.088	0.880	
ALPHA-HUMULENE	0.020	0.020		TESTED	0.082	0.820	
FARNESENE	0.020	0.020		TESTED	0.069	0.690	
VALENCENE	0.020	0.020		TESTED	0.030	0.300	
CARYOPHYLLENE OXIDE	0.020	0.020		TESTED	0.027	0.270	
ALPHA-PHELLANDRENE	0.020	0.020		TESTED	0.026	0.260	
GERANIOL	0.020	0.020		TESTED	0.024	0.240	
FENCHYL ALCOHOL	0.020	0.020		TESTED	0.023	0.230	
ALPHA-TERPINEOL	0.020	0.020		TESTED	0.022	0.220	
GERANYL ACETATE	0.020	0.020		TESTED	0.021	0.210	
GUAIOL	0.020	0.020		TESTED	0.021	0.210	
3-CARENE	0.020	0.020		TESTED	ND	ND	
BORNEOL	0.020	0.020		TESTED	ND	ND	
CAMPHENE	0.020	0.020		TESTED	ND	ND	
CAMPHOR	0.020	0.020		TESTED	ND	ND	
CEDROL	0.002	0.020		TESTED	ND	ND	
EUCALYPTOL	0.020	0.020		TESTED	ND	ND	
FENCHONE	0.020	0.020		TESTED	ND	ND	
HEXAHYDROTHYMOL	0.020	0.020		TESTED	ND	ND	
ISOBORNEOL	0.020	0.020		TESTED	ND	ND	
ISOPULEGOL	0.020	0.020		TESTED	ND	ND	
NEROL	0.020	0.020		TESTED	ND	ND	
OCIMENE	0.020	0.020		TESTED	ND	ND	
PULEGONE	0.020	0.020		TESTED	ND	ND	
SABINENE	0.020	0.020		TESTED	ND	ND	
SABINENE HYDRATE	0.020	0.020		TESTED	ND	ND	
TERPINOLENE	0.020	0.020		TESTED	ND	ND	
ALPHA-CEDRENE	0.020	0.020		TESTED	ND	ND	
ALPHA-TERPINENE	0.020	0.020		TESTED	ND	ND	
CIS-NEROLIDOL	0.020	0.020		TESTED	ND	ND	
GAMMA-TERPINENE	0.020	0.020		TESTED	ND	ND	
P-CYMENE	0.020	0.020		TESTED	ND	ND	
TRANS-NEROLIDOL	0.020	0.020		TESTED	ND	ND	

Analyzed by: 623, 990, 1172
Weight: 0.5267g
Extraction date: 02/11/26 12:29:53
Extracted by: 572

Analysis Method : SOP.T.30.064.MA, SOP.T.40.064.MA
Analytical Batch : NA025375TER
Instrument Used : NA-GCMS-004 (Terpenes)
Batch Date : 02/10/26 08:32:18
Analyzed Date : 02/15/26 20:50:04

Dilution : 10
Reagent : 030725.01; 011326.02; 010626.01; 020426.R02
Consumables : 010924CK01; 9291.114; 9479291.114; 250821-634-A; 04507064; IP250.077; 1008855823; 1008897313; GD25001; 339114210
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.

Residual Solvents

PASSED

ANALYTES	UNIT	LOD	LOQ	LIMIT	PASS/FAIL	RESULT	QUALIFIER
ETHANOL	ppm	253.000	700.000	5000	PASS	ND	

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License # : MP281426

Sample: NA60210005-037
Batch #: 260209-MAMA
Harvest/Lot ID: 260209-MAMA
Seed to sale: 1A40A030000012F000230454

Ordered: 02/10/26
Sampled: 02/10/26
Completed: 02/16/26

PASSED

Residual Solvents

PASSED

ANALYTES	UNIT	LOD	LOQ	LIMIT	PASS/FAIL	RESULT	QUALIFIER

Analyzed by: 572, 990, 1172 **Weight:** 0.0263g **Extraction date:** 02/11/26 10:23:49 **Extracted by:** 572

Analysis Method : SOP.T.40.044.MA
Analytical Batch : NA025374SOL
Instrument Used : NA-GCMS-003,NA-GCMS-005
Batch Date : 02/10/26 07:59:40
Analyzed Date : 02/12/26 20:59:51

Dilution : N/A
Reagent : 070224.01; 082724.02
Consumables : 1164863; 887159116589802; 040325-51122; 125852; GD25001; 23-47
Pipette : N/A

Residual solvents screening is performed using GC-MS which can detect below single digit ppm concentrations. Currently we analyze for 27 Residual solvents. (Method: SOP.T.40.044.MA Residual Solvents Analysis via GC-MS).

Microbial

PASSED

ANALYTES	UNIT	LOD	LOQ	LIMIT	PASS/FAIL	RESULT	QUALIFIER
TOTAL COLIFORMS	cfu/g	10	10	100	PASS	ND	
TOTAL VIABLE AEROBIC BACTERIA	cfu/g	10	10	10000	PASS	ND	
BILE TOLERANT GRAM NEGATIVE BACTERIA	cfu/g	10	10	100	PASS	ND	
TOTAL YEAST AND MOLD	cfu/g	100	100	1000	PASS	<100	
ESCHERICHIA COLI SPECIFIC GENE					PASS	Not Present	
SALMONELLA SPECIFIC GENE					PASS	Not Present	

Analyzed by: 388, 990, 1172 **Weight:** 0.909g **Extraction date:** 02/11/26 08:56:41 **Extracted by:** 388,870

Analysis Method : SOP.T.40.056C, SOP.T.40.209.MA, SOP.T.40.206.MA
Analytical Batch : NA025396MIC
Instrument Used : NA-PCR-001 (Microbial)
Batch Date : 02/10/26 17:10:33
Analyzed Date : 02/15/26 20:38:42

Dilution : 90
Reagent : N/A
Consumables : 418325046A; 418325126D; 346M6K; 8847202-2441; 08/09/22; BEL-13166-0001; 13111; 250821-634-A; 052925CH01; 2050518; 15162252609; X002BSDL8D; 3110; 25204; 25/06/27; 0002276; 0002555; 7588002041; WO4586; WO4228; WO4869; 0002056; 0002044; 0002176; 0001353; 0002057; WO4955; WO4316; WO3882; WO4135; 7810003035; 0002302; 0001989; WO4831; WO4768; 0001991; 0002093; 0000652134; 0000652115; 0000630117; 1010667926; 1010204253; 1010571396; 1010818394
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-004 (P-100 multi); 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-208A (P-1000); 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

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	UNIT	LOD	LOQ	LIMIT	PASS/FAIL	RESULT	QUALIFIER
AFLATOXIN B1	ppb	2.010	5.000	20	PASS	ND	
AFLATOXIN B2	ppb	1.955	5.000	20	PASS	ND	
AFLATOXIN G1	ppb	1.823	5.000	20	PASS	ND	
AFLATOXIN G2	ppb	2.100	5.000	20	PASS	ND	
OCHRATOXIN A	ppb	2.194	5.000	20	PASS	ND	
TOTAL AFLATOXINS	ppb	1.820	5.000	20	PASS	ND	

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Sample: NA60210005-037
Batch #: 260209-MAMA
Harvest/Lot ID: 260209-MAMA
Seed to sale: 1A40A030000012F000230454

Ordered: 02/10/26
Sampled: 02/10/26
Completed: 02/16/26

PASSED

Mycotoxins

PASSED

ANALYTES	UNIT	LOD	LOQ	LIMIT	PASS/FAIL	RESULT	QUALIFIER

Analyzed by: 139, 990, 1172 **Weight:** 0.4879g **Extraction date:** 02/14/26 12:00:19 **Extracted by:** 795,414

Analysis Method : SOP.T.40.104.MA
Analytical Batch : NA025449MYC
Instrument Used : NA-LCMS-001 (MYC) **Batch Date :** 02/12/26 09:48:40
Analyzed Date : 02/15/26 20:40:30

Dilution : 12.5
Reagent : 021126.R02; 030725.01; 012926.R16; 021026.R04; 021326.R01; 013026.R01; 021026.R02; 122625.R02; 060922.01
Consumables : 9479291.114; 250821-634-A; USEEN02615; USEEZ04484; 1008876794; 1008855823; 1008897313; GD25001
Pipette : NA-202 (P-200); NA-026 (Dispenser); 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.

Heavy Metals

PASSED

ANALYTES	UNIT	LOD	LOQ	LIMIT	PASS/FAIL	RESULT	QUALIFIER
ARSENIC	ppb	6.720	10.000	200	PASS	ND	
CADMIUM	ppb	9.260	10.000	200	PASS	ND	
MERCURY	ppb	3.400	5.000	100	PASS	ND	
LEAD	ppb	8.850	10.000	500	PASS	ND	

Analyzed by: 1391, 414, 1172 **Weight:** 0.4075g **Extraction date:** 02/11/26 11:08:36 **Extracted by:** 1391,1473

Analysis Method : SOP.T.30.084.MA, SOP.T.40.084.MA
Analytical Batch : NA025392HEA
Instrument Used : NA-ICPMS-001,NA-ICPMS-002,Anton-Paar Microwave Go NA-237,Anton-Paar Microwave Go NA-145,NA-340 Multiwave 7301 Digester **Batch Date :** 02/10/26 16:48:05
Analyzed Date : 02/13/26 12:52:24

Dilution : 50
Reagent : 062824.02; 062824.03; 020826.01; 012926.R06; 020126.R15; 020926.R01; 061025.10; 070224.01; 110425.01; 030725.01; 011326.09; 040325.01
Consumables : L205125M; 13208; 052925CH01; 070125CH01; 1008855823; GD25001
Pipette : NA-012 (P-200); NA-214 Bottle Top Dispenser (nitric acid); NA-125 (5mL); NA-255 (10mL Dispensette, HCL)

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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