



# Certificate of Analysis

**PASSED**



**Harvest/Lot ID:** 250908-PAPA  
**Batch #:** 250908-PAPA  
**Production Method:** Ethanol  
**Retail Product Size:** 1 gram  
**Retail Serving Size:** 1 gram  
**Servings:** 1  
**Metric Package #:**  
1A40A030000012F000229359  
**Metric Source Package #:**  
1A40A030000012F000229358

**Lab ID:** NA50909002-009  
**Ordered:** 09/09/25  
**Sampled Date:** 09/09/25  
**Sample Size:** 7.2 gram  
**Completed:** 09/12/25











## INSA - Massachusetts

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



### SAFETY RESULTS

MISC.

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



## Cannabinoid

**PASSED**



**Total THC**  
**83.1413%**



**Total CBD**  
**ND**



**Total Cannabinoids**  
**86.7554%**

	TOTAL CANNABINOIDS	TOTAL TAC	TOTAL THC	TOTAL CBD	THCA	D9-THC	CBDA	CBD	CBN	CBG	CBGA	THCVA	THCV	CBDV	CBC	D8-THC
%	86.7554	86.7554	83.1413	ND	ND	83.1413	ND	ND	0.2174	2.6823	ND	ND	0.3699	ND	0.3445	ND
mg/g	867.5543	867.5543	831.4135	ND	ND	831.4135	ND	ND	2.1740	26.8231	ND	ND	3.6989	ND	3.4448	ND
LOD	0.0010	0.0001	0.0010	0.0010	0.2000	0.0010	0.2000	0.2000	0.2000	0.0100	0.2000	0.2000	0.2000	0.2000	0.2000	0.2000
LOQ	0.0100	0.0010	0.0100	0.0100	0.2000	0.0100	0.2000	0.2000	0.2000	0.0010	0.2000	0.2000	0.2000	0.2000	0.2000	0.2000
Qualifier	%	%	%	%	%	%	%	%	%	%	%	%	%	%	%	%

Analyzed by:  
735, 990, 1172

Weight:  
0.1023g

Extraction date:  
09/10/25 15:42:58

Extracted by:  
735,1280

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

Analytical Batch : NA021103POT

Instrument Used : NA-HPLC-003 (Potency - High Conc. Derivatives)

Batch Date : 09/09/25 14:52:11

Analyzed Date : 09/12/25 17:56:59

Dilution : 400

Reagent : 070224.01; 081825.02; 062425.02; 082225.04; 071525.R16; 071525.R17; 090325.R01; 081925.R02; 081125.R03

Consumables : 101924CK01; 9291.110; 9479291.043; 13086-520CD-520D; 04411066; 1008646012; 1008855823; 210118R; 220215E-15; GD240008; 338069094; 23-47

Pipette : NA-014 (P-200); NA-221 (P-10); 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	2.013	20.130	
LIMONENE	0.020	0.020		TESTED	0.524	5.240	
ALPHA-PINENE	0.020	0.020		TESTED	0.357	3.570	
BETA-CARYOPHYLLENE	0.020	0.020		TESTED	0.347	3.470	

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**Margaret Teasdale**

Lab Director

State License #  
IL281349  
ISO 17025  
Accreditation # 97164



Signature  
09/12/25  
Laboratory License #:  
IL281349



# Certificate of Analysis

**INSA - Massachusetts**  
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myinsa.com  
License #: MP281426

**Sample: NA50909002-009**  
Batch #: 250908-PAPA  
Harvest/Lot ID: 250908-PAPA  
Seed to sale: 1A40A030000012F000229359

Ordered: 09/09/25  
Sampled: 09/09/25  
Completed: 09/12/25

**PASSED**



## Terpenes

TESTED

ANALYTES	LOD	LOQ	LIMIT	PASS/FAIL	RESULT (%)	(MG/G)	QUALIFIER
BETA-PINENE	0.020	0.020		TESTED	0.244	2.440	
LINALOOL	0.020	0.020		TESTED	0.123	1.230	
ALPHA-BISABOLOL	0.020	0.020		TESTED	0.071	0.710	
FENCHYL ALCOHOL	0.020	0.020		TESTED	0.056	0.560	
ALPHA-TERPINEOL	0.020	0.020		TESTED	0.050	0.500	
ALPHA-HUMULENE	0.020	0.020		TESTED	0.049	0.490	
FARNESENE	0.020	0.020		TESTED	0.034	0.340	
VALENCENE	0.020	0.020		TESTED	0.032	0.320	
CAMPHENE	0.020	0.020		TESTED	0.030	0.300	
TERPINOLENE	0.020	0.020		TESTED	0.027	0.270	
GUAIOL	0.020	0.020		TESTED	0.025	0.250	
CARYOPHYLLENE OXIDE	0.020	0.020		TESTED	0.023	0.230	
CAMPHOR	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	
CEDROL	0.002	0.020		TESTED	ND	ND	
EUCALYPTOL	0.020	0.020		TESTED	ND	ND	
FENCHONE	0.020	0.020		TESTED	ND	ND	
GERANIOL	0.020	0.020		TESTED	ND	ND	
GERANYL ACETATE	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	
ALPHA-CEDRENE	0.020	0.020		TESTED	ND	ND	
ALPHA-PHELLANDRENE	0.020	0.020		TESTED	ND	ND	
ALPHA-TERPINENE	0.020	0.020		TESTED	ND	ND	
BETA-MYRCENE	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	

<b>Analyzed by:</b> 623, 990, 1172	<b>Weight:</b> 0.5476g	<b>Extraction date:</b> 09/10/25 10:56:15	<b>Extracted by:</b> 623
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**Analysis Method :** SOP.T.30.064.MA, SOP.T.40.064.MA  
**Analytical Batch :** NA021105TER  
**Instrument Used :** NA-GCMS-002 (Terpenes) **Batch Date :** 09/09/25 15:07:16  
**Analyzed Date :** 09/12/25 18:00:06

**Dilution :** 10  
**Reagent :** 090225.06; 070224.01; 061125.03; 090525.R02  
**Consumables :** 101924CK01; 20220108; 9291.110; 947.135; 6121230; 4052-629; 1008855823; 1009206457; GD240008; 338069094; 23-47  
**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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**Margaret Teasdale**  
Lab Director



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IL281349  
ISO 17025  
Accreditation # 97164

Signature  
09/12/25  
**Laboratory License #:**  
IL281349



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myinsa.com  
License #: MP281426

**Sample: NA50909002-009**  
Batch #: 250908-PAPA  
Harvest/Lot ID: 250908-PAPA  
Seed to sale: 1A40A030000012F000229359

Ordered: 09/09/25  
Sampled: 09/09/25  
Completed: 09/12/25

**PASSED**



## Residual Solvents

PASSED


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

Analyzed by: 572, 414, 1172      Weight: 0.0193g      Extraction date: 09/10/25 10:13:08      Extracted by: 572

Analysis Method : SOP.T.40.044.MA      Batch Date : 09/09/25 15:57:47  
 Analytical Batch : NA021111SOL  
 Instrument Used : NA-GCMS-003,NA-GCMS-005  
 Analyzed Date : 09/11/25 08:38:27

Dilution : N/A  
 Reagent : 070224.01; 082724.02  
 Consumables : 1170471; 887159115731601; 040325-51122; GD240008; 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, 711, 414, 1172      Weight: 1.164g      Extraction date: 09/09/25 15:23:41      Extracted by: 711,388

Analysis Method : SOP.T.40.056C, SOP.T.40.209.MA, SOP.T.40.206.MA  
 Analytical Batch : NA021092MIC  
 Instrument Used : NA-PCR-001 (Microbial)      Batch Date : 09/09/25 13:49:35  
 Analyzed Date : 09/11/25 08:35:42

Dilution : 90  
 Reagent : N/A  
 Consumables : 418325008A; 8847202-2441; 08/09/22; BEL-13166-0001; 04825070; 241110-3059-A; 019502; 358411; 2050518; 50RWM0911W83; X002BSDLD8; 3110; 446445; 25104; 24/11/18; 0002043; 0002148; 7585002050; WO4104; WO4000; WO4632; 0001889; 0001891; 0002004; 0001316; 0001951; 0002015; WO4316; WO3882; WO4135; 7806004029; 0001820; 0001665; WO4664; WO4413; 0001317; 0001822; 0000581411; 0000581319; 0000581413; 1008646012; 1010204253; 211129-1125; 1010089656  
 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, 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-235 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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**Margaret Teasdale**  
Lab Director



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ISO 17025  
Accreditation # 97164

Signature  
09/12/25  
Laboratory License #: IL281349



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

Kaycha Labs  
PAPA Bulk  
Matrix: Cannabis Resin and Concentrates  
Classification: Inhalable Concentrate  
Type: Distillate



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Harvest/Lot ID: 250908-PAPA  
Seed to sale: 1A40A030000012F000229359

Ordered: 09/09/25  
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Completed: 09/12/25

**PASSED**



## Mycotoxins

PASSED

ANALYTES	UNIT	LOD	LOQ	LIMIT	PASS/FAIL	RESULT	QUALIFIER
<b>Analyzed by:</b> 139, 414, 1172 <b>Weight:</b> 0.4056g <b>Extraction date:</b> 09/10/25 09:46:46 <b>Extracted by:</b> 414,795 <b>Analysis Method:</b> SOP.T.40.104.MA <b>Analytical Batch:</b> NA021110MYC <b>Instrument Used:</b> NA-LCMS-001 (MYC) <b>Analyzed Date:</b> 09/11/25 11:35:29 <b>Batch Date:</b> 09/09/25 15:35:04 <b>Dilution:</b> 12.5 <b>Reagent:</b> 090425.R03; 082624.04; 082025.R01; 090225.R01; 060922.01; 083125.R01; 082625.R01; 090425.R02; 090825.R02 <b>Consumables:</b> 9291.043; 947.135; 6121230; 1008855823; 1009206457; GD240008; 23-47; USEEN02432; USEEZ04086 <b>Pipette:</b> NA-014 (P-200); NA-026 (Dispenser); NA-290 (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	
<b>Analyzed by:</b> 990, 1172 <b>Weight:</b> 0.4299g <b>Extraction date:</b> 09/10/25 13:59:24 <b>Extracted by:</b> 1314,990 <b>Analysis Method:</b> SOP.T.30.084.MA, SOP.T.40.084.MA <b>Analytical Batch:</b> NA021108HEA <b>Instrument Used:</b> NA-ICPMS-001 <b>Analyzed Date:</b> 09/12/25 08:35:34 <b>Batch Date:</b> 09/09/25 15:12:42 <b>Dilution:</b> 50 <b>Reagent:</b> 090625.R01; 062824.02; 062824.03; 050225.01; 090225.R18; 090925.R13; 061025.10; 070224.01; 082624.04; 040325.01 <b>Consumables:</b> L205125M; 04825070; 13086-520CD-520D; 1008855823; GD240008 <b>Pipette:</b> 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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