Smithers AMS LLC
790 Main St
Wareham, MA 02571
License #: IL281355
Phone: 508-295-2550

Certificate of Analysis



Customer: Fernway

Address:
178 Industrial Drive
Northampton MA 01060

Phone: 203-915-2596

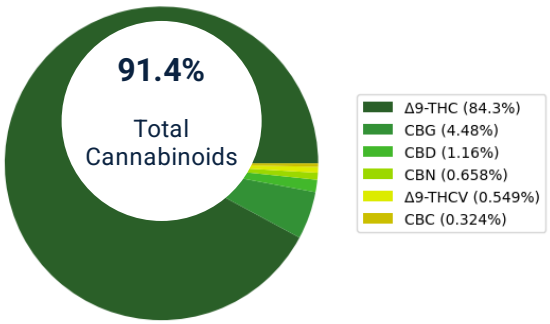
License #: MP281661

Sample ID: 55221
Sample Name: M00001428007: Cranberry Jam - 1.0g (510)
Sample Type: Concentrate
Received Date: 10/14/2026
Report Date: 10/17/2026
METRC ID: 1A40A0300003779000133938
METRC Source ID: 1A40A0300003779000151742
Client Batch ID: FMA-CRANBE-1G-261009
Sanitization Method: None
Client Sample Size: 7 each

Results Summary

Cannabinoids	TESTED	
10/16/2026		
Vitamin E Acetate	☑ PASS	
10/16/2026		
Heavy Metals	☑ PASS	
10/16/2026		
Microbial Impurities	☑ PASS	
10/17/2026		
Residual Solvents	☑ PASS	
10/16/2026		
Mycotoxins	☑ PASS	
10/16/2026		

Cannabinoid Distribution (%)



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SMITHERS

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Cannabinoids

Date Started: 10/15/2026
Instrument: UPLC-PDA
Date Completed: 10/16/2026
Method: TP-09.001.06 & TP-09.012.07
Analyst: Lana Rivera (B144852)
Deviation: N/A

Cannabinoid	Result (%)	Result (mg/g)	LOD (%)	LOQ (%)
Δ9-THC	84.3	843	0.271	1.47
CBG	4.48	44.8	0.00637	0.0734
CBD	1.16	11.6	0.0114	0.147
CBN	0.658	6.58	0.0100	0.0734
Δ9-THCV	0.549	5.49	0.00791	0.0587
CBC	0.324	3.24	0.00695	0.0587
CBDVA	ND	ND	0.00987	0.0587
CBDV	ND	ND	0.0281	0.0587
CBDA	ND	ND	0.00925	0.147
CBGA	ND	ND	0.00575	0.0734
Δ8-THCV	ND	ND	0.0143	0.0587
THCVA	ND	ND	0.00623	0.0587
CBNA	ND	ND	0.00775	0.0587
Exo-THC	ND	ND	0.0117	0.0587
Δ8-THC	ND	ND	0.0257	0.0734
CBL	ND	ND	0.0174	0.0587
THCA	ND	ND	0.0235	0.147
CBCA	ND	ND	0.0189	0.0587
Total THC	**84.3**	**843**		
Total CBD	**1.16**	**11.6**		
Total Cannabinoids	**91.4**	**914**		

Total THC = Δ9-THC + (THCA x 0.877)
Total CBD = CBD + (CBDA x 0.877)
Total Cannabinoids = Sum of all cannabinoids without THC/CBD corrections.
LOD = Limit of Detection; **LOQ** = Limit of Quantitation; **ND** = Not Detected.

Vitamin E Acetate

PASS

Date Started: 10/15/2026
Instrument: HPLC-PDA
Date Completed: 10/16/2026
Method: TP-09.006.04
Analyst: Meagan Mattos (B154555)
Deviation: N/A

Analyte	Result (ppm)	LOD (ppm)	LOQ (ppm)	Status
Tocopheryl Acetate	ND	45.0	148	Pass

Heavy Metals

PASS

Date Started: 10/16/2026
Instrument: ICP-MS
Date Completed: 10/16/2026
Method: TP-09.007.04
Analyst: Meagan Mattos (B154555)
Deviation: N/A

Heavy Metals	Result (ppb)	LOD (ppb)	LOQ (ppb)	Limit (ppb)	Status
Arsenic	<LOQ	10.8	72.9	200	Pass
Cadmium	ND	64.7	72.9	200	Pass
Lead	ND	5.95	72.9	500	Pass
Mercury	ND	5.19	36.5	100	Pass

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PJLA Testing
Accreditation # 130533

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Microbial Impurities

PASS

Date Started: 10/14/2026
Instrument: TEMPO & Gene-Up

Date Completed: 10/17/2026
Method: TP-09.010.03 & TP-09.011.04

Analyst: Sydney Murphy (B168056)
Deviation: N/A

Microbials	Result (CFU/g)	Limit (CFU/g)	Status
Coliforms	ND	100	Pass
Bile-Tolerant Gram-Negative Bacteria	ND	100	Pass
Yeast & Mold	ND	1000	Pass
Aerobic Bacteria	ND	10000	Pass
E.coli	ND		Pass
Salmonella	ND		Pass

Residual Solvents

PASS

Date Started: 10/15/2026
Instrument: HS-GC-MS

Date Completed: 10/16/2026
Method: TP-09.005.05

Analyst: Lana Rivera (B144852)
Deviation: N/A

Residual Solvent	Result (ppm)	LOD (ppm)	LOQ (ppm)	Limit (ppm)	Status
n-Propane	ND	0.415	1.63	12.0	Pass
n-Butane	ND	0.179	1.63	12.0	Pass
Methanol	ND	38.8	98.0	3000	Pass
Ethylene Oxide	ND	0.653	1.31		Pass
n-Pentane	ND	26.3	98.0	5000	Pass
Ethanol	ND	18.2	98.0	5000	Pass
Ethyl Ether	ND	24.8	98.0	5000	Pass
Acetone	ND	17.8	98.0	5000	Pass
Isopropyl Alcohol	ND	22.2	98.0	5000	Pass
Acetonitrile	ND	13.8	98.0	410	Pass
Methylene Chloride	ND	0.653	1.31	600	Pass
n-Hexane	ND	26.6	98.0	290	Pass
Ethyl Acetate	ND	15.4	98.0	5000	Pass
Chloroform	ND	0.653	1.31	60.0	Pass
1,2-Dichloroethane	ND	0.653	1.31	1870	Pass
Benzene	ND	0.653	1.31		Pass
n-Heptane	ND	28.5	98.0	5000	Pass
Trichloroethylene	ND	0.653	1.31	80.0	Pass
Toluene	ND	11.3	98.0	890	Pass
Total Xylenes	**ND**	**19.3**	**49.0**	**2170**	**Pass**

Mycotoxins

PASS

Date Started: 10/15/2026
Instrument: LC-MS/MS

Date Completed: 10/16/2026
Method: TP-09.009.06

Analyst: Meagan Mattos (B154555)
Deviation: N/A

Mycotoxins	Result (ppb)	LOD (ppb)	LOQ (ppb)	Limit (ppb)	Status
Aflatoxin B1	ND	0.938	3.09		
Aflatoxin B2	ND	0.938	3.09		
Aflatoxin G1	ND	0.938	3.09		
Aflatoxin G2	ND	0.938	3.09		
Ochratoxin A	ND	0.938	3.09		
Total Mycotoxins	**ND**	**0.938**	**3.09**	**20.0**	**Pass**

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Yuemin Wang Kovaleff, Lab Manager
10/17/2026

END OF REPORT

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