

Sample Result: PASS

Date Reported:	2/11/2025
Client Name:	Empire Standard LLC
Sampling Location:	Binghamton, New York
Contact Name:	Empire Standard LLC
Contact Email:	info@empirestandardny.com
License Number:	OCM-PROC-24-000202
Medical/Adult Use:	Adult Use
Sampling Date:	01/16/2025 12:00:00 PM

Potency	T	Pesticides	P	Heavy Metals	P	Mycotoxins	P
Water Activity	P	Microbiological	P	Residual Solvents	P	Terpenes	P
		Moisture	P	Filth & Foreign Material	-		
"--" = Not Tested; "T" = Tested; "P" = Pass; "F" = Fail							

Cannabinoids: JPB1-0325-001 (20250116-EMNY-005)

Potency analysis utilizing HPLC (HPLC-UV: SOP-073-GA)			
Analyte	% w/w	mg/serving	MRL (% w/w)
CBDV	< MRL	< MRL	0.482
CBDA	< MRL	< MRL	0.482
CBGA	0.654	6.540	0.482
CBG	< MRL	< MRL	0.482
CBD	< MRL	< MRL	0.482
THCV	< MRL	< MRL	0.482
CBN	< MRL	< MRL	0.482
D9-THC	6.861	68.606	0.482
D8-THC	< MRL	< MRL	0.482
D10-THC-S	< MRL	< MRL	0.482
D10-THC-R	< MRL	< MRL	0.482
CBC	< MRL	< MRL	0.482
THCA	38.798	387.979	0.482

MRL = Minimum reporting limit/limit of quantification
 mg/serving = % w/w x 10 x serving size weight (g)
 Reported on a dry-weight basis based on the calculation:
 (wet sample % x 100)/(100 - %MC)

Test ID: #92157 | Date Tested: 02/06/2025 07:04 AM

Potency Summary	% w/w	mg/serving
Total THC [$\Delta 8\text{-THC} + \Delta 9\text{-THC} + \Delta 10\text{-THC} + (\text{THCA} * 0.877)$]	40.886	408.864
Total CBD [CBD + (CBDA * 0.877)]	< MRL	< MRL
Total Cannabinoids	46.313	463.125

Version 2: Amended potency and moisture content panels per client
request - MWE 02/11/25

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Laboratory determined measurement uncertainty is available by request.



Terpenes: JPB1-0325-001 (20250116-EMNY-005)

Terpenes analysis utilizing GC-MS (GC-MS: SOP-063-GA, SOP-069-GA)

Analyte	Result (% w/w)	MRL (% w/w)
alpha-Pinene	< MRL	0.10
Camphepane	< MRL	0.10
Sabinene	< MRL	0.10
beta-Pinene	< MRL	0.10
beta-Myrcene	< MRL	0.10
Alpha-phellandrene	< MRL	0.10
Carene	< MRL	0.10
alpha-terpinene	< MRL	0.10
p-Cymene	< MRL	0.10
Limonene	< MRL	0.10
Eucalyptol	< MRL	0.10
Ocimene	< MRL	0.07
gamma-Terpinene	< MRL	0.10
Sabinene Hydrate	< MRL	0.10
Terpinolene	< MRL	0.10
Linalool	0.15	0.10
Fenchol	< MRL	0.10
Menthol	< MRL	0.10
Terpineol	< MRL	0.10
Citronellol	< MRL	0.10
Isopulegol	< MRL	0.10
Geraniol	< MRL	0.10
Alpha-cedrene	< MRL	0.08
Beta-Caryophyllene	0.23	0.10
Farnesene	0.17	0.10
alpha-Humulene	0.17	0.10
Valencene	< MRL	0.10
cis-Nerolidol	< MRL	0.04
trans-Nerolidol	< MRL	0.06
Caryophyllene oxide	< MRL	0.10
Guaiol	< MRL	0.10
alpha-Bisabolol	< MRL	0.10

MRL = Minimum reporting limit/limit of quantification

Test ID: #92164 | Date Tested: 01/20/2025 05:30 AM

Terpenes Summary	Result	Limit	Pass/Fail
Total Terpenes (% w/w)	0.72	10	PASS



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Residual Solvents: JPB1-0325-001 (20250116-EMNY-005)

PASS

Residual solvents and processing chemicals analysis utilizing Headspace Gas Chromatography – Mass Spectrometry (GC-MS: SOP-067-GA, SOP-010-GA)

Analyte	Pass/Fail	Result (µg/g)	Limit (µg/g)	MRL (µg/g)
1,2-Dichloroethane	PASS	< MRL	5	3.670
2-Propanol	PASS	< MRL	5000	549.911
Acetone	PASS	< MRL	5000	109.982
Acetonitrile	PASS	< MRL	410	45.093
Butanes, total	PASS	< MRL	5000	549.911
Benzene	PASS	< MRL	2	0.734
Chloroform	PASS	< MRL	60	6.599
Dichloromethane	PASS	< MRL	600	65.989
Dimethyl Sulfoxide	PASS	< MRL	5000	989.839
Ethanol	PASS	< MRL	5000	549.911
Ethyl acetate	PASS	< MRL	5000	549.911
Ethyl ether	PASS	< MRL	5000	549.911
n-Heptane	PASS	< MRL	5000	549.911
Hexanes, total	PASS	< MRL	290	31.895
Methanol	PASS	< MRL	3000	329.947
Pentanes, total	PASS	< MRL	5000	549.911
Propane	PASS	< MRL	5000	549.911
Tetrafluoroethane (1,1,1,2-) (HFC-134a)	PASS	< MRL	1000	356.342
Toluene	PASS	< MRL	890	97.884
Trichloroethane	PASS	< MRL	1500	989.839
Xylenes, total	PASS	< MRL	2170	238.662

MRL = Minimum reporting limit/limit of quantification

Test ID: #92163 | Date Tested: 01/23/2025 03:47 AM

Version 2: Amended potency and moisture content panels per client request - MWE 02/11/25



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Pesticides: JPB1-0325-001 (20250116-EMNY-005)

PASS

Residual pesticide analysis utilizing Liquid Chromatography - Mass Spectrometry (LC-MS/MS: SOP-062-GA, SOP-070-GA)

Analyte	Pass/Fail	Result (µg/g)	Limit (µg/g)	MRL (µg/g)
Abamectin	PASS	< MRL	0.50	0.100
Acephate	PASS	< MRL	0.40	0.100
Acequinoxy	PASS	< MRL	2.00	0.100
Acetamiprid	PASS	< MRL	0.20	0.100
Aldicarb	PASS	< MRL	0.40	0.100
Azadirachtin	PASS	< MRL	1.00	0.250
Azoxystrobin	PASS	< MRL	0.20	0.100
Bifenazate	PASS	< MRL	0.20	0.100
Bifenthrin	PASS	< MRL	0.20	0.100
Boscalid	PASS	< MRL	0.40	0.100
Captan	PASS	< MRL	1.00	0.500
Carbaryl	PASS	< MRL	0.20	0.100
Carbofuran	PASS	< MRL	0.20	0.100
Chlorantraniliprole	PASS	< MRL	0.20	0.100
Chlordane	PASS	< MRL	1.00	0.250
Chlorfenapyr	PASS	< MRL	1.00	0.050
Chlormequat chloride	PASS	< MRL	1.00	0.100
Chlorpyrifos	PASS	< MRL	0.20	0.100
Clofentezine	PASS	< MRL	0.20	0.100
Coumaphos	PASS	< MRL	1.00	0.100
Cyfluthrin	PASS	< MRL	1.00	0.100
Cypermethrin	PASS	< MRL	1.00	0.100
Daminozide	PASS	< MRL	1.00	0.100
Diazinon	PASS	< MRL	0.20	0.100
Dichlorvos	PASS	< MRL	1.00	0.100
Dimethoate	PASS	< MRL	0.20	0.100
Dimethomorph	PASS	< MRL	1.00	0.100
Ethoprophos	PASS	< MRL	0.20	0.100
Etofenprox	PASS	< MRL	0.40	0.100
Etoxazole	PASS	< MRL	0.20	0.100
Fenhexamid	PASS	< MRL	1.00	0.100
Fenoxy carb	PASS	< MRL	0.20	0.100
Fenpyroximate	PASS	< MRL	0.40	0.100
Fipronil	PASS	< MRL	0.40	0.100
Flonicamid	PASS	< MRL	1.00	0.100
Fludioxonil	PASS	< MRL	0.40	0.100
Hexythiazox	PASS	< MRL	1.00	0.100
Imazalil	PASS	< MRL	0.20	0.100
Imidacloprid	PASS	< MRL	0.40	0.100
Indole-3-butyric acid	PASS	< MRL	1.00	0.250
Kresoxim-methyl	PASS	< MRL	0.40	0.100
Malathion	PASS	< MRL	0.20	0.100
Metalaxyl	PASS	< MRL	0.20	0.100
Methiocarb	PASS	< MRL	0.20	0.100
Methomyl	PASS	< MRL	0.40	0.100
Methyl Parathion	PASS	< MRL	0.20	0.050
Mevinphos	PASS	< MRL	1.00	0.100
MGK-264 I/II	PASS	< MRL	0.20	0.100
Myclobutanil	PASS	< MRL	0.20	0.100
Naled	PASS	< MRL	0.50	0.100
Oxamyl	PASS	< MRL	1.00	0.100
Paclobutrazol	PASS	< MRL	0.40	0.100
Pentachloronitrobenzene	PASS	< MRL	1.00	0.250
Permethrins, total	PASS	< MRL	0.20	0.100
Phosmet	PASS	< MRL	0.20	0.100
Piperonyl butoxide	PASS	< MRL	2.00	0.100
Prallethrin	PASS	< MRL	0.20	0.100
Propiconazole	PASS	< MRL	0.40	0.100
Propoxur	PASS	< MRL	0.20	0.100
Pyrethrins	PASS	< MRL	1.00	0.100
Pyridaben	PASS	< MRL	0.20	0.100
Spinetoram, Total	PASS	< MRL	1.00	0.100
Spinosad, Total	PASS	< MRL	0.20	0.100
Spiromesifen	PASS	< MRL	0.20	0.100
Spirotetramat	PASS	< MRL	0.20	0.100
Spiroxamine	PASS	< MRL	0.20	0.100
Tebuconazole	PASS	< MRL	0.40	0.100
Thiacloprid	PASS	< MRL	0.20	0.100
Thiamethoxam	PASS	< MRL	0.20	0.100
Trifloxystrobin	PASS	< MRL	0.20	0.100

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Test ID: #92162 | Date Tested: 01/23/2025 03:30 AM

Version 2: Amended potency and moisture content panels per client
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Mycotoxins: JPB1-0325-001 (20250116-EMNY-005)

PASS

Mycotoxin analysis utilizing Liquid Chromatography - Mass Spectrometry (LC-MS/MS: SOP-062-GA, SOP-070-GA)

Analyte	Pass/Fail	Result ($\mu\text{g/g}$)	Limit ($\mu\text{g/g}$)	MRL ($\mu\text{g/g}$)
Ochratoxin	PASS	< MRL	0.02	0.010
Total Aflatoxins	PASS	< MRL	0.02	0.010

MRL = Minimum reporting limit/limit of quantification

Test ID: #92161 | Date Tested: 01/23/2025 03:30 AM

Heavy Metals: JPB1-0325-001 (20250116-EMNY-005)

PASS

Heavy Metals analysis utilizing Inductively Coupled Plasma Mass Spectrometry (ICP-MS: SOP-061-NY, SOP-072-GA)

Analyte	Pass/Fail	Result ($\mu\text{g/g}$)	Limit ($\mu\text{g/g}$)	MRL ($\mu\text{g/g}$)
Chromium	PASS	< MRL	110.0	8.00
Nickel	PASS	< MRL	2.0	1.00
Copper	PASS	< MRL	30.0	8.00
Arsenic	PASS	< MRL	0.2	0.10
Cadmium	PASS	< MRL	0.2	0.10
Antimony	PASS	< MRL	2.0	1.00
Mercury	PASS	< MRL	0.1	0.05
Lead	PASS	< MRL	0.5	0.20

MRL = Minimum reporting limit/limit of quantification

Test ID: #92158 | Date Tested: 01/20/2025 03:43 AM

Microbiological Screen: JPB1-0325-001 (20250116-EMNY-005)

PASS

Microbial analysis utilizing quantitative Polymerase Chain Reaction and microbial enumeration (qPCR; SOP-700-NY, SOP-701-NY)

Analyte	Pass/Fail	Results (CFU/g)	Limit (CFU/g)	MRL (CFU/g)
Total Aerobic Bacteria	PASS	13182	None	100
Total Yeast & Mold	PASS	3455	None	100
Salmonella spp	PASS	Absent	Absent	1
Shiga toxin-producing E. coli	PASS	Absent	Absent	1
Aspergillus (fumigatus, flavus, niger, terreus)	PASS	Absent	Absent	1

MRL = Minimum reporting limit/limit of quantification

Test ID: #92159 | Date Tested: 01/25/2025 09:03 AM

Moisture Content: JPB1-0325-001 (20250116-EMNY-005)

PASS

Moisture content analysis utilizing Moisture Balance (MB; SOP-055-GA)

Analyte	Pass/Fail	Result (%)	Limit (%)
Moisture	PASS	5.5	15

MRL = Minimum reporting limit/limit of quantification

Test ID: #92160 | Date Tested: 02/04/2025 07:57 AM

Water Activity: JPB1-0325-001 (20250116-EMNY-005)

PASS

Water activity analysis utilizing a chilled mirror dew point sensor (SOP-059-GA)

Analyte	Pass/Fail	Result (a_w)	Limit (a_w)
Water Activity	PASS	0.27	0.65

MRL = Minimum reporting limit/limit of quantification

Test ID: #92165 | Date Tested: 01/22/2025 03:04 AM

Version 2: Amended potency and moisture content panels per client
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Matthew Elmes
Lab Director
2/11/2025

Certificate of Analysis

Full Compliance Test

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