



Certificate of Analysis

Analytical Test Report

Client: Hybrid Theory OCM-MICR-24-000122	Final Report Report Date Lab Permit	MCR-S26-01004 Rev.01.00 5/1/2026 OCM-CPL-2022-00008	Laboratory: MCR Labs Julian England 315-541-4202 800 Broad Street Utica, NY 13501
	Sample Collection Site	Cornwall, NY	
	Sample Collection Date and Time	4/23/2026 10:15	

Sample ID #	Sample Name	Matrix	Sample Type	Date Received
S26-01004	Orange Colonel	Flower	Adult Use	4/23/2026

Lot #	Lot Size (units)	Number of Units Received	METRC ID
OC-3.5-009	800	8	1A41203000018B70000 00344

The test results presented in this report are accurate, complete, and compliant with the MCR Labs quality control criteria.

Authorization

Julian England
Lead Technical Director

Case Narrative

These results apply only to the items tested, as sampled according to CORP-SOP-NY-20, by MCR Labs New York.

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Requested Testing

Test	Code	Procedure	Analytes Tested	Disposition
Cannabinoid Profile	CN	TM-NY-7	CBC, CBD, CBDA, CBDV, CBG, CBGA, CBN, Δ8-THC, Δ9-THC, (6aR,9S)-10-THC, (6aS,9S)-10-THC, THCV, THCA	N/A
Moisture Content	MC	TM-NY-1	Moisture Content	Pass
Water Activity	WA	TM-NY-10	Water Activity	Pass
Heavy Metals Screen	HM	TM-NY-5	Arsenic (As), Cadmium (Cd), Mercury (Hg), Lead (Pb), Chromium (Cr), Copper (Cu), Nickel (Ni), Antimony (Sb)	Pass
Mycotoxins Screen	MY	TM-NY-6	Aflatoxin B1, Aflatoxin B2, Aflatoxin G1, Aflatoxin G2, Total Aflatoxins, Ochratoxin A	Pass
Microbiological Screen	MB	TM-NY-3 TM-NY-8	Total Viable Aerobic Bacteria, Total Yeast and Mold, STEC, Salmonella, Aspergillus	Pass
Terpene Profile	TP	TM-NY-12	α-Pinene, Camphene, β-Myrcene, β-Pinene, Δ-3-Carene, α-Terpinene, cis-β-Ocimene, D-Limonene, p-Cymene, trans-β-Ocimene, Eucalyptol, γ-Terpinene, Terpinolene, Linalool, Isopulegol, Geraniol, β-Caryophyllene, α-Humulene, cis-Nerolidol, trans-Nerolidol, Guaiol, Caryophyllene Oxide, α-Bisabolol, α-Terpineol, Fenchol, Valencene, α-Phellandrene, trans-β-Farnesene	Pass
Pesticides Screen	PS	TM-NY-6	Pesticides as required by OCM	Pass
Filth and Foreign Material	FFM	TM-NY-11	Mammalian Excreta, Stems (>3mm), Foreign Material	Pass

Cannabinoid Profile [TM-NY-7] Analyst: TC Test Date: 4/28/2026 9:30

Table 1 - S26-01004 Orange Colonel Flower Cannabinoid Testing

Analyte	Cannabinoid	Conc. (dry weight %)	LOD (weight %)	LOQ (weight %)
CBC	Cannabichromene	<LOQ	0.0044%	0.0500%
CBD	Cannabidiol	ND	0.0067%	0.0500%
CBDA	Cannabidiolic Acid	0.0558%	0.0051%	0.0500%
CBDV	Cannabidivarin	ND	0.0065%	0.0500%
CBG	Cannabigerol	0.159%	0.0057%	0.0500%
CBGA	Cannabigerolic Acid	0.469%	0.0062%	0.0500%
CBN	Cannabinol	<LOQ	0.0052%	0.0500%
Δ8-THC	Δ8-Tetrahydrocannabinol	ND	0.0188%	0.0500%
Δ9-THC	Δ9-Tetrahydrocannabinol	0.778%	0.0141%	0.0500%
Δ10R-THC	Δ10R-Tetrahydrocannabinol	ND	0.0055%	0.0500%
Δ10S-THC	Δ10S-Tetrahydrocannabinol	ND	0.0044%	0.0500%
THCV	Tetrahydrocannabivarin	ND	0.0084%	0.0500%
THCA	Tetrahydrocannabinolic Acid	26.3%	0.0057%	0.0500%

Total Active Cannabinoids (sum of above table)	27.8%	N/A	N/A
Total THC = Δ8 + Δ9 + Δ10 + (THCA * 0.877)	23.8%	N/A	N/A
Total CBD = CBD + (CBDA * 0.877)	0.0489%	N/A	N/A

Note: There are no limits established by the New York Office of Cannabis Management for cannabinoid concentrations. ND = Not Detected; LOQ = Limit of Quantitation; LOD = Limit of Detection. Δ10R-THC = (6aR,9S)-10-THC; Δ10S-THC = (6aS,9S)-10-THC

Moisture Content [TM-NY-1] Analyst: BS Test Date: 4/24/2026 16:35

Table 2 - S26-01004 Orange Colonel Flower Moisture Content Testing

Test Analysis	Conc. (weight %)	Regulatory Limits	Disposition
Moisture Content	10.0%	15.0%	Pass

Note: Testing limits are based on the limits set forth by the New York Office of Cannabis Management pursuant to 9 New York Codes, Rules and Regulations (NYCRR) Part 130 and Cannabis Law. Measurement uncertainty is not factored in the disposition. ND = Not Detected.

Water Activity [TM-NY-10] Analyst: BS Test Date: 4/24/2026 16:00

Table 3 - S26-01004 Orange Colonel Flower Water Activity Testing

Test Analysis	Result	Limits	Disposition
Water Activity	0.43	≤ 0.65	Pass

Note: Testing limits are based on the limits set forth by the New York Office of Cannabis Management pursuant to 9 New York Codes, Rules and Regulations (NYCRR) Part 130 and Cannabis Law. Measurement uncertainty is not factored in the disposition. ND = Not Detected.

Heavy Metals Screen [TM-NY-5] Analyst: BS Test Date: 4/24/2026 13:37

Table 4 - S26-01004 Orange Colonel Flower Heavy Metals Testing

Test Analysis	Result (µg/g)	LOD (µg/g)	LOQ (µg/g)	Limits (µg/g)	Disposition
Arsenic	ND	0.007	0.04	0.2	Pass
Cadmium	ND	0.017	0.05	0.2	Pass
Mercury	ND	0.020	0.04	0.1	Pass
Lead	<LOQ	0.007	0.09	0.5	Pass
Chromium	ND	0.645	20.00	110	Pass
Copper	<LOQ	0.208	5.45	30	Pass
Nickel	ND	0.163	0.36	5	Pass
Antimony	ND	0.019	0.36	2	Pass

Note: Testing limits are based on the limits set forth by the New York Office of Cannabis Management pursuant to 9 New York Codes, Rules and Regulations (NYCRR) Part 130 and Cannabis Law.
 ND = Not Detected; LOD = Limit of Detection; LOQ = Limit of Quantitation.

Mycotoxins Screen [TM-NY-6] Analyst: JMG Test Date: 4/25/2026 9:00 AM

Table 5 - S26-01004 Orange Colonel Flower Mycotoxins Testing

Analyte	Result (µg/g)	LOD (µg/g)	LOQ (µg/g)	Limits (µg/g)	Disposition
Aflatoxin B1	ND	0.0025	0.005	N/A	N/A
Aflatoxin B2	ND	0.0010	0.005	N/A	N/A
Aflatoxin G1	ND	0.0015	0.005	N/A	N/A
Aflatoxin G2	ND	0.0042	0.005	N/A	N/A
Total Aflatoxins	ND	N/A	N/A	0.02	Pass
Ochratoxin A	ND	0.0030	0.010	0.02	Pass

Note: Testing limits are based on the limits set forth by the New York Office of Cannabis Management pursuant to 9 New York Codes, Rules and Regulations (NYCRR) Part 130 and Cannabis Law.
 ND = Not Detected; LOD = Limit of Detection; LOQ = Limit of Quantitation.

Microbiological Screen [TM-NY-3] Analyst: TC Test Date: 4/24/2026 9:46

Table 6 - S26-01004 Orange Colonel Flower Microbiological Testing

Test Analysis	Result	Unit	LOQ	Limits	Disposition
Total Viable Aerobic Bacteria	<100	CFU/g	100 CFU/g	No Limit	Reported
Total Yeast and Mold	<100	CFU/g	100 CFU/g	No Limit	Reported

Note: Testing limits are based on the limits set forth by the New York Office of Cannabis Management pursuant to 9 New York Codes, Rules and Regulations (NYCRR) Part 130 and Cannabis Law.
 CFU = Colony Forming Unit; LOQ = Limit of Quantitation.

Microbiological Screen [TM-NY-8] Analyst: TC Test Date: 4/24/2026 9:46

Table 7 - S26-01004 Orange Colonel Flower Microbiological Testing

Test Analysis	Result	Unit	LOQ	Limits	Disposition
STEC	Negative	N/A	1 CFU/g	Not detected in 1g	Pass
Salmonella	Negative	N/A	1 CFU/g	Not detected in 1g	Pass
Aspergillus	Negative	N/A	1 CFU/g	Not detected in 1g	Pass

Note: Testing limits are based on the limits set forth by the New York Office of Cannabis Management pursuant to 9 New York Codes, Rules and Regulations (NYCRR) Part 130 and Cannabis Law.
STEC = Shiga Toxin producing E. coli; CFU = Colony Forming Unit; LOQ = Limit of Quantitation.

Terpene Profile [TM-NY-12]

Analyst: JMG

Test Date: 4/27/2026 10:01 AM

Table 8 - S26-01004 Orange Colonel Flower Terpene Testing

Analyte	Result (weight %)	Result (ppm)	LOD (weight %)	LOD (ppm)	LOQ (weight %)	LOQ (ppm)
α -Pinene	0.0244	244	0.0026	26	0.0125	125
Camphene	<LOQ	<LOQ	0.0022	22	0.0125	125
β -Myrcene	0.0438	438	0.0021	21	0.0125	125
β -Pinene	0.0438	438	0.0020	20	0.0125	125
Δ -3-Carene	ND	ND	0.0021	21	0.0125	125
α -Terpinene	ND	ND	0.0022	22	0.0125	125
cis- β -Ocimene	ND	ND	0.0006	6	0.0031	31
D-Limonene	0.1856	1856	0.0022	22	0.0125	125
p-Cymene	ND	ND	0.0025	25	0.0125	125
trans- β -Ocimene	ND	ND	0.0019	19	0.0094	94
Eucalyptol	ND	ND	0.0022	22	0.0125	125
γ -Terpinene	ND	ND	0.0022	22	0.0125	125
Terpinolene	ND	ND	0.0022	22	0.0125	125
Linalool	0.0312	312	0.0022	22	0.0125	125
Isopulegol	ND	ND	0.0025	25	0.0125	125
Geraniol	<LOQ	<LOQ	0.0028	28	0.0125	125
β -Caryophyllene	0.1755	1755	0.0026	26	0.0125	125
α -Humulene	0.0761	761	0.0024	24	0.0125	125
cis-Nerolidol	<LOQ	<LOQ	0.0012	12	0.0054	54
trans-Nerolidol	ND	ND	0.0032	32	0.0125	125
Guaiol	ND	ND	0.0021	21	0.0125	125
Caryophyllene Oxide	0.0144	144	0.0027	27	0.0125	125
α -Bisabolol	0.0360	360	0.0026	26	0.0125	125
α -Terpineol	0.0345	345	0.0013	13	0.0125	125
Fenchol	0.0386	386	0.0006	6	0.0125	125
Valencene	0.1103	1103	0.0021	21	0.0125	125
α -Phellandrene	ND	ND	0.0046	46	0.0125	125
trans- β -Farnesene	ND	ND	0.0061	61	0.0125	125

	Result (weight %)	Limit (weight %)	Disposition
Total Terpenes	0.8142	11.5000	Pass

Note: Testing limits are based on the limits set forth by the New York Office of Cannabis Management pursuant to 9 New York Codes, Rules and Regulations (NYCRR) Part 130 and Cannabis Law.

ND = Not Detected; LOD = Limit of Detection; LOQ = Limit of Quantitation.

Pesticides Screen [TM-NY-6]

Analyst: JMG

Test Date: 4/25/2026 9:00 AM

Table 9 - S26-01004 Orange Colonel Flower Pesticides Testing

Analyte	Result (ppm)	LOD (ppm)	LOQ (ppm)	Limits (ppm)	Disposition
Abamectin	ND	0.023	0.200	0.5	Pass
Acephate	ND	0.042	0.200	0.4	Pass
Acequinocyl	ND	0.034	0.200	2.0	Pass
Acetamiprid	ND	0.036	0.160	0.2	Pass
Aldicarb	ND	0.022	0.200	0.4	Pass
Azadirachtin	ND	0.055	0.200	1.0	Pass
Azoxystrobin	ND	0.109	0.100	0.2	Pass
Bifenazate	ND	0.008	0.160	0.2	Pass
Bifenthrin	ND	0.041	0.100	0.2	Pass
Boscalid	ND	0.032	0.200	0.4	Pass
Captan	ND	0.037	0.200	1.0	Pass
Carbaryl	ND	0.063	0.160	0.2	Pass
Carbofuran	ND	0.033	0.160	0.2	Pass
Chlorantraniliprole	ND	0.008	0.190	0.2	Pass
Chlordane	ND	0.083	0.200	1.0	Pass
Chlorfenapyr	ND	0.134	0.500	1.0	Pass
Chlormequat chloride	ND	0.068	0.200	1.0	Pass
Chlorpyrifos	ND	0.005	0.160	0.2	Pass
Clofentezine	ND	0.016	0.100	0.2	Pass
Coumaphos	ND	0.019	0.200	1.0	Pass
Cyfluthrin	ND	0.132	0.500	1.0	Pass
Cypermethrin	ND	0.254	0.500	1.0	Pass
Daminozide	ND	0.049	0.200	1.0	Pass
Diazinon	ND	0.022	0.100	0.2	Pass
Dichlorvos	ND	0.032	0.200	1.0	Pass
Dimethoate	ND	0.108	0.160	0.2	Pass
Dimethomorph	ND	0.007	0.200	1.0	Pass
Ethoprop(hos)	ND	0.014	0.160	0.2	Pass
Etofenprox	ND	0.020	0.200	0.4	Pass
Etoxazole	ND	0.011	0.100	0.2	Pass
Fenhexamid	ND	0.022	0.200	1.0	Pass
Fenoxycarb	ND	0.032	0.160	0.2	Pass
Fenpyroximate	ND	0.019	0.200	0.4	Pass
Fipronil	ND	0.045	0.200	0.4	Pass
Flonicamid	ND	0.058	0.200	1.0	Pass

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 ND = Not Detected; LOD = Limit of Detection; LOQ = Limit of Quantitation; ppm = Parts Per Million.

Pesticides Screen [TM-NY-6]

Analyst: JMG

Test Date: 4/25/2026 9:00 AM

Table 10 - S26-01004 Orange Colonel Flower Pesticides Testing

Analyte	Result (ppm)	LOD (ppm)	LOQ (ppm)	Limits (ppm)	Disposition
Fludioxonil	ND	0.113	0.200	0.4	Pass
Hexythiazox	ND	0.042	0.200	1.0	Pass
Imazalil	ND	0.011	0.100	0.2	Pass
Imidacloprid	ND	0.020	0.200	0.4	Pass
Indole-3-butyric Acid	ND	0.015	0.200	1.0	Pass
Kresoxim-methyl	ND	0.038	0.200	0.4	Pass
Malathion	ND	0.027	0.100	0.2	Pass
Metalaxyl	ND	0.006	0.190	0.2	Pass
Methiocarb	ND	0.035	0.100	0.2	Pass
Methomyl	ND	0.056	0.200	0.4	Pass
Methyl parathion	ND	0.046	0.100	0.2	Pass
Mevinphos	ND	0.048	0.200	1.0	Pass
MGK-264	ND	0.014	0.100	0.2	Pass
Myclobutanil	ND	0.031	0.100	0.2	Pass
Naled	ND	0.016	0.200	0.5	Pass
Oxamyl	ND	0.046	0.200	1.0	Pass
Paclobutrazol	ND	0.033	0.200	0.4	Pass
Pentachloronitrobenzene	ND	0.037	0.200	1.0	Pass
Permethrins, Total	ND	0.038	0.100	0.2	Pass
Phosmet	ND	0.020	0.100	0.2	Pass
Piperonyl butoxide	ND	0.010	0.200	2.0	Pass
Prallethrin	ND	0.017	0.100	0.2	Pass
Propiconazole	ND	0.011	0.200	0.4	Pass
Propoxur	ND	0.041	0.190	0.2	Pass
Pyrethrins	ND	0.019	0.200	1.0	Pass
Pyridaben	ND	0.025	0.160	0.2	Pass
Spinetoram, Total	ND	0.034	0.200	1.0	Pass
Spinosad, Total	ND	0.033	0.100	0.2	Pass
Spiromesifen	ND	0.019	0.100	0.2	Pass
Spirotetramat	ND	0.010	0.100	0.2	Pass
Spiroxamine	ND	0.018	0.100	0.2	Pass
Tebuconazole	ND	0.015	0.200	0.4	Pass
Thiacloprid	ND	0.005	0.100	0.2	Pass
Thiamethoxam	ND	0.014	0.100	0.2	Pass
Trifloxystrobin	ND	0.045	0.100	0.2	Pass

Note: Testing limits are based on the limits set forth by the New York Office of Cannabis Management pursuant to 9 New York Codes, Rules and Regulations (NYCRR) Part 130 and Cannabis Law.
 ND = Not Detected; LOD = Limit of Detection; LOQ = Limit of Quantitation; ppm = Parts Per Million.

Filth and Foreign Material [TM-NY-11]

Analyst: TC

Test Date: 4/25/2026 11:23

Table 11 - S26-01004 Orange Colonel Flower Filth and Foreign Material Testing

Test Analysis	Result	Units	Limits	Disposition
Mammalian Excreta	ND	mg	1 mg	Pass
Stems (>3mm)	ND	%	5%	Pass
Foreign Material	ND	%	2%	Pass

Note: Testing limits are based on the limits set forth by the New York Office of Cannabis Management pursuant to 9 New York Codes, Rules and Regulations (NYCRR) Part 130 and Cannabis Law.
ND = Not Detected.