



Certificate of Analysis

Analytical Test Report

<b>Client:</b> Berkley Botanicals llc 44 County Street Berkley, MA 02779	<b>Final Report</b>	<b>MCR-S24-13210 Rev.01.00</b>	<b>Laboratory:</b> MCR Labs 85 Speen St. Lower Level Framingham, MA 01701 508-872-6666
	<b>Report Date</b>	08 JULY 2024	
	<b>METRC Tag:</b>	1A40A030000D5AD000004353	
	<b>METRC Source Tag:</b>	1A40A030000D5AD000004327	

Sample ID #	Sample Name	Batch	Matrix	Date Received	Date(s) Tested	Sample Weight
S24-13210	Renew - Truffle Monkey - Bulk Flower	TruffleMonkey-F5-06122024	Flower	03 July 2024	05-08 July 2024	9.04 g

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

Authorization

Carlos Cruz  
Data Quality Manager



Case Narrative

This sample was received by MCR Labs from a RMD agent in a sealed container. The collected data was compared to data collected from analytical reference standards at known concentrations. Testing was conducted using MGC's combined primer kit. TAC (Total Active Cannabinoids) calculation on the report includes all quantified and estimated values. Cannabinoid data processed using external standard instead of internal standard. Unless specified by regulation, measurement uncertainty is not taken into account when reporting results and making a statement of conformity. Values reported below quantitation limits are for informational purposes. QA/QC/CV data is available upon request.

This report and all information herein shall not be reproduced, except in its entirety, without the expressed consent of MCR Labs. Results apply only to the sample supplied to MCR Labs.

Requested Testing

Test	Code	Procedure	Analytes Tested	Disposition
Cannabinoid Profile	CN	MCR-TM-0011	CBDVA, CBDV, CBDA, CBGA, CBG, CBD, THCV, THCVA, CBCV, CBN, Δ9-THC, Δ8-THC, CBL, THCA, CBC, CBCA, CBLA, CBT	N/A
Moisture Content	MC	MCR-TM-0019	Moisture Content	N/A
Microbiological Screen	MB	MCR-TM-0021 MCR-TM-0012	Bacterial (Total Aerobic, Total Coliform, Bile-Tolerant Gram Negative), Yeast and Mold, Pathogenic (E. coli, Salmonella)	Pass
Heavy Metals Screen	HM	MCR-TM-0008	Arsenic (As), Cadmium (Cd), Mercury (Hg), Lead (Pb)	Pass
Mycotoxins Screen	MY	MCR-TM-0009	Aflatoxin B1, Aflatoxin B2, Aflatoxin G1, Aflatoxin G2, Ochratoxin A	Pass
Terpene Profile	TP	MCR-TM-0016*	α-Pinene, Camphene, β-Myrcene, β-Pinene, Δ-3-Carene, α-Terpinene, Ocimene, D-Limonene, p-Cymene, β-Ocimene, Eucalyptol, γ-Terpinene, Terpinolene, Linalool, Isopulegol, Geraniol, β-Caryophyllene, α-Humulene, cis-Nerolidol, trans-Nerolidol, Guaiol, Caryophyllene Oxide, α-Bisabolol, Sabinene, α-Phellandrene, Sabinene Hydrate, Fenchyl Alcohol, Isoborneol, Menthol, Borneol, α-Terpineol, Nerol, trans-β-Farnesene, α-Cedrene, Valencene, Cedrol, Fenchone, Camphor, Pulegone, Geranyl Acetate	N/A
Pesticides Screen	PS	MCR-TM-0009	Bifenazate, Bifenthrin, Cyfluthrin, Etoxazole, Imazalil, Imidacloprid, M-cyclobutanol, Spiromesifen, Trifloxystrobin	Pass

**Cannabinoid Profile [MCR-TM-0011]**

Test Date: 07 Jul 24

Analyte	Cannabinoid	Conc. (weight %)	Conc. (mg/g)	LOD (weight %)	LOQ (weight %)
CBDVA	Cannabidivarinic Acid	ND	ND	0.01%	0.05%
CBDV	Cannabidivarin	ND	ND	0.01%	0.05%
CBDA	Cannabidiolic Acid	0.1%	1	0.01%	0.05%
CBGA	Cannabigerolic Acid	0.3%	3	0.01%	0.05%
CBG	Cannabigerol	0.2%	2	0.02%	0.05%
CBD	Cannabidiol	ND	ND	0.02%	0.05%
THCV	Tetrahydrocannabivarin	ND	ND	0.01%	0.05%
THCVA	Tetrahydrocannabivarinic Acid	0.1%	1	0.02%	0.05%
CBCV	Cannabichromevarin	ND	ND	0.01%	0.05%
CBN	Cannabinol	ND	ND	0.01%	0.05%
Δ9-THC	Δ9-Tetrahydrocannabinol	0.2%	2	0.01%	0.05%
Δ8-THC	Δ8-Tetrahydrocannabinol	ND	ND	0.01%	0.05%
CBL	Cannabicyclol	ND	ND	0.01%	0.05%
THCA	Tetryhydrocannabinolic Acid	21.5%	215	0.01%	0.05%
CBC	Cannabichromene	ND	ND	0.00%	0.05%
CBCA	Cannabichromenic Acid	0.3%	3	0.02%	0.25%
CBLA	Cannabicycloic Acid	ND	ND	0.01%	0.05%
CBT	Cannabicitran	ND	ND	0.01%	0.05%

Total Active Cannabinoids (sum of above table)	22.7%	227	N/A	N/A
Total THC = THC + 0.877 * THCA	19.1%	191	N/A	N/A
Total CBD = CBD + (CBDA * 0.877)	0.09%	1	N/A	N/A

Note: There are no limits established by the Massachusetts Department of Public Health for cannabinoid concentrations. ND = Not Detected; LOQ = Limit of Quantitation; LOD = Limit of Detection.

**Moisture Content [MCR-TM-0019]**

Test Date: 07 Jul 24

Test Analysis	Conc. (weight %)
Moisture Content	11.30%

Note: ND = Not Detected.

**Microbiological Screen [MCR-TM-0021]**

Test Date: 05 Jul 24

Test Analysis	Result	Unit	Limits	Disposition
Total Viable Aerobic Bacteria	94	CFU/g	100000 CFU/g	Pass
Total Yeast and Mold	0	CFU/g	10000 CFU/g	Pass
Total Coliforms	0	CFU/g	1000 CFU/g	Pass
Total Bile-Tolerant Gram Negative Bacteria	0	CFU/g	1000 CFU/g	Pass

Note: Testing limits established by the Massachusetts Department of Public Health, Protocol for Sampling and Analysis of Finished Medical Marijuana Products and Marijuana-Infused Products for Massachusetts Registered Medical Marijuana Dispensaries, Exhibit 6. CFU = Colony Forming Unit.

**Microbiological Screen [MCR-TM-0012]**

Test Date: 08 Jul 24

Test Analysis	Result	Unit	Limits	Disposition
STEC	Not Detected	N/A	Not detected in 1g	Pass
Salmonella	Not Detected	N/A	Not detected in 1g	Pass

Note: Testing limits established by the Massachusetts Department of Public Health, Protocol for Sampling and Analysis of Finished Medical Marijuana Products and Marijuana-Infused Products for Massachusetts Registered Medical Marijuana Dispensaries, Exhibit 6.

NT = Not tested; STEC = Shiga Toxin producing E. coli.

**Heavy Metals Screen [MCR-TM-0008]**

Test Date: 06 Jul 24

Test Analysis	Result (ppb)	LOD (ppb)	LOQ (ppb)	Limits (ppb)	Disposition
Arsenic	ND	39.0	118.1	200	Pass
Cadmium	ND	16.9	76.9	200	Pass
Mercury	ND	19.3	76.9	100	Pass
Lead	ND	19.5	76.9	500	Pass

Testing limits established by the Massachusetts Department of Public Health, Protocol for Sampling and Analysis of Finished Medical Marijuana Products and Marijuana-Infused Products for Massachusetts Registered Medical Marijuana Dispensaries, Exhibit 4.

ND = Not Detected; LOD = Limit of Detection; LOQ = Limit of Quantitation; BQL = Below Quantitation Limit; ppb = parts per billion.

**Mycotoxins Screen [TM-NY-6]**

Test Date: 06 Jul 24

Test Analysis	Result (ppb)	LOD (ppb)	LOQ (ppb)	Limits (ppb)	Disposition
Aflatoxin B1	Not Detected	3.3	10	20	Pass
Aflatoxin B2	Not Detected	3.3	10	20	Pass
Aflatoxin G1	Not Detected	3.3	10	20	Pass
Aflatoxin G2	Not Detected	3.3	10	20	Pass
Ochratoxin A	Not Detected	5.0	10	20	Pass

Note: Testing limits established by the Massachusetts Department of Public Health, Protocol for Sampling and Analysis of Finished Medical Marijuana Products and Marijuana-Infused Products for Massachusetts Registered Medical Marijuana Dispensaries, Exhibit 6.

ND = Not Detected; LOD = Limit of Detection; LOQ = Limit of Quantitation; ppb = Parts Per Billion.

**Terpene Profile [MCR-TM-0016]\***

Test Date: 06 Jul 24

Analyte	Conc. (weight %)*
α-Pinene	0.04%*
Camphene	0.10%*
β-Myrcene	0.26%*
β-Pinene	0.06%*
Δ-3-Carene	ND*
α-Terpinene	ND*
α-Ocimene	ND*
D-Limonene	0.35%*
p-Cymene	ND*
β-Ocimene	0.01%*
Eucalyptol	ND*
γ-Terpinene	0.01%*
Terpinolene	0.02%*
Linalool	0.23%*
Isopulegol	0.11%*
Geraniol	0.05%*
β-Caryophyllene	0.44%*
α-Humulene	0.16%*
cis-Nerolidol	0.17%*
trans-Nerolidol	0.05%*

Analyte	Conc. (weight %)*
Guaiol	ND*
Caryophyllene Oxide	0.11%*
α-Bisabolol	0.15%*
Sabine	ND*
α-Phellandrene	ND*
Sabinene Hydrate	0.02%*
Fenchyl Alcohol	0.05%*
Isoborneol	ND*
Menthol	ND*
Borneol	0.02%*
α-Terpineol	0.05%*
Nerol	ND*
trans-β-Farnesene	ND*
α-Cedrene	0.01%*
Valencene	0.17%*
Cedrol	ND*
Fenchone	0.01%*
Camphor	ND*
Pulegone	0.09%*
Geranyl Acetate	0.16%*

<b>Total Terpenes</b>	2.90%*
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Note: ND = Not Detected.

**Pesticides Screen [MCR-TM-0009]**

Test Date: 06 Jul 24

Analyte	Result (ppb)	LOD (ppb)	LOQ (ppb)	Limits (ppb)	Disposition
Bifenazate	ND	10	35	10	Pass
Bifenthrin	ND	10	35	10	Pass
Cyfluthrin	ND	10	35	10	Pass
Etoxazole	ND	10	35	10	Pass
Imazalil	ND	10	35	10	Pass
Imidacloprid	ND	10	35	10	Pass
Myclobutanil	ND	10	35	10	Pass
Spiromesifen	ND	10	35	10	Pass
Trifloxystrobin	ND	10	35	10	Pass

Note: Testing limits established by the Massachusetts Department of Public Health, Protocol for Sampling and Analysis of Finished Medical Marijuana Products and Marijuana-Infused Products for Massachusetts Registered Medical Marijuana Dispensaries, Exhibit 5.

ND = Not Detected; LOD = Limit of Detection; LOQ = Limit of Quantitation; ppb = Parts Per Billion.