


Analytical Test Report

Client: Berkley Botanicals llc 44 County Street Berkley, MA 02779	Final Report MCR-S23-28265 Rev.01.00 Report Date: 7 NOVEMBER 2023 METRC Tag: 1A40A030000D5AD000000515 METRC Source Tag: 1A40A030000D5AD000000492	Laboratory: MCR Labs 85 Speen St. Lower Level Framingham, MA 01701 508-872-6666
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Sample ID #	Sample Name	Batch	Matrix	Date Received	Date Tested	Sample Weight
MCR-S23-28265	Renew - Raspberry Diesel - Bulk Flower	RaspberryDiesel-F3-10122023	Flower	02 November 2023	04-07 November 2023	9.31 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. Presumptive microbiological positives were analyzed for confirmation. QA/QC/CV data is available upon request. TAC (Total Active Cannabinoids) calculation on the report includes all quantified and estimated values. Testing was conducted using MGC's combined primer kit. 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.

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Requested Testing:

Test	Code	Procedure	Analytes Tested	Disposition
Cannabinoid Profile	CN	MCR-TM-0011	CBDVA, CBDV, CBDA, CBGA, CBG, CBD, THCV, THCVA, CBCV, CBN, D9-THC, D8-THC, CBL, THCA, CBC, CBCA, CBLA, CBT	N/A
Microbiological Screen	MB	MCR-TM-0021* MCR-TM-0006 MCR-TM-0012	Bacterial (Total Aerobic, Total Coliform, Bile-Tolerant Gram Negative), Yeast and Mold, Pathogenic (E. coli, Salmonella)	Pass
Mycotoxin Screen	MY	MCR-TM-0009	Aflatoxin B1, Aflatoxin B2, Aflatoxin G1, Aflatoxin G2, Ochratoxin A	Pass
Heavy Metals Screen	HM	MCR-TM-0008	Arsenic (As), Cadmium (Cd), Lead (Pb), Mercury (Hg)	Pass
Pesticides Screen	PS	MCR-TM-0009	Bifenazate, Bifenthrin, Cyfluthrin, Etoxazole, Imazalil, Imidacloprid, Myclobutanil, Spiromesifen, Trifloxystrobin	Pass
Terpene Screen	TP	MCR-TM-0016*	α-Pinene, Camphene, β-Myrcene, β-Pinene, δ-3-Carene, α-Terpinene, Ocimene, δ-Limonene, p-Cymene, β-Ocimene, Eucalyptol, γ-Terpinene, Terpinolene, Linalool, Isopulegol, Geraniol, β-Caryophyllene, α-Humulene, Nerolidol 1, Nerolidol 2, Guaiol, Caryophyllene Oxide, α-Bisabolol	N/A
Moisture Content	MC	MCR-TM-0019	Moisture Content	N/A

*Result is non-accredited.

Cannabinoid Profile [MCR-TM-0011]

Analyst: DTR/IG/GA/EB

Test Date: 06 Nov 23

Table 1 - S23-28265 Renew - Raspberry Diesel - Bulk Flower RaspberryDiesel-F3-10122023 Flower Cannabinoid Testing

Analyte	Cannabinoid	Conc. (weight %)	Conc. (dry weight %)	LOQ (weight %)	LOD (weight %)
CBDVA	Cannabidivarinic acid	ND	ND	0.05%	0.01%
CBDV	Cannabidivarin	ND	ND	0.05%	0.01%
CBDA	Cannabidiolic acid	ND	ND	0.05%	0.01%
CBGA	Cannabigerolic acid	0.4%	0.4%	0.05%	0.01%
CBG	Cannabigerol	0.1%	0.1%	0.05%	0.02%
CBD	Cannabidiol	ND	ND	0.05%	0.02%
THCV	Tetrahydrocannabivarin	ND	ND	0.05%	0.01%
THCVA	Tetrahydrocannabivarinic acid	0.1%	0.1%	0.05%	0.02%
CBCV	Cannabichromevarin	ND	ND	0.05%	0.01%
CBN	Cannabinol	ND	ND	0.05%	0.01%
Δ9-THC	Δ9-Tetrahydrocannabinol	0.5%	0.6%	0.05%	0.01%
Δ8-THC	Δ8-Tetrahydrocannabinol	ND	ND	0.05%	0.01%
CBL	Cannabicyclol	ND	ND	0.05%	0.01%
THCA	Tetrahydrocannabinolic acid	13.2%	14.8%	0.05%	0.01%
CBC	Cannabichromene	ND	ND	0.05%	0.01%
CBCA	Cannabichromenic acid	0.1%	0.1%	0.25%	0.02%
CBLA	Cannabicyclolic acid	0.1%	0.1%	0.05%	0.01%
CBT	Cannabicitran	ND	ND	0.05%	0.01%

Total Active Cannabinoids (sum of above table)	14.5%	16.2%	N/A	N/A
Total THC = Δ9-THC + THCA	13.7%	15.4%	N/A	N/A
Total CBD = CBD + CBDA	ND	ND	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.

Microbiological Screen [MCR-TM-0021]*

Analyst: AI

Test Date: 05-07 Nov 23

Table 2 - S23-28265 Renew - Raspberry Diesel - Bulk Flower RaspberryDiesel-F3-10122023 Flower Microbiological Testing

Test ID	Test Analysis	Results*	Unit	Limits	Disposition*
23-28265-AC	Total Viable Aerobic Bacteria	=0*	CFU/g	10 ⁵ CFU/g	Pass*
23-28265-YM	Total Yeast and Mold	=0*	CFU/g	10 ⁴ CFU/g	Pass*

Note: CFU = colony forming unit. 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.

*Result is non-accredited.

Microbiological Screen [MCR-TM-0006]	<i>Analyst: MN</i>	<i>Test Date: 06-07 Nov 23</i>
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Table 3 - S23-28265 Renew - Rasperry Diesel - Bulk Flower RasperryDiesel-F3-10122023 Flower Microbiological Testing

Test ID	Test Analysis	Results	Unit	Limits	Disposition
23-28265-CC	Total Coliforms	<100	CFU/g	10 ³ CFU/g	Pass
23-28265-EB	Total Bile-Tolerant Gram Negative Bacteria	<100	CFU/g	10 ³ CFU/g	Pass

Note: CFU = colony forming unit. 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.

Pathogenic Bacterial Screen [MCR-TM-0012]	<i>Analyst: MN</i>	<i>Test Date: 06 Nov 23</i>
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Table 4 - S23-28265 Renew - Rasperry Diesel - Bulk Flower RasperryDiesel-F3-10122023 Flower Pathogen Testing

Test ID	Test Analysis	Result	Units	Limits	Disposition
S23-28265-ECPT	STEC	Not Detected	N/A	Not Detected in 1g	Pass
S23-28265-SPT	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

Mycotoxin Screen [MCR-TM-0009]	<i>Analyst: IG</i>	<i>Test Date: 05 Nov 23</i>
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Table 5 - S23-28265 Renew - Rasperry Diesel - Bulk Flower RasperryDiesel-F3-10122023 Flower Mycotoxin Testing

Test ID	Test Analysis	Result	LOD (ppb)	LOQ (ppb)	Limits (ppb)	Disposition
S23-28265-AFB1	Aflatoxin B1	Not Detected	3.3	10	20	Pass
S23-28265-AFB2	Aflatoxin B2	Not Detected	3.3	10	20	Pass
S23-28265-AFG1	Aflatoxin G1	Not Detected	3.3	10	20	Pass
S23-28265-AFG2	Aflatoxin G2	Not Detected	3.3	10	20	Pass
S23-28265-OTA	Ochratoxin A	Not Detected	5	10	20	Pass

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

*Result is non-accredited.

Heavy Metals Screen [MCR-TM-0008]	Analyst: IG	Test Date: 06 Nov 23
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Table 6 - S23-28265 Renew - Rasperry Diesel - Bulk Flower RasperryDiesel-F3-10122023 Flower Heavy Metal Testing

Test ID	Test Analysis	Result, ppb	LOD ppb	LOQ ppb	Limits ppb	Disposition	Limits (ingestion) ppb	Disposition (ingestion)
S23-28265-HM	Arsenic	ND	39.0	118.1	200	Pass	1500	Pass
S23-28265-HM	Cadmium	ND	16.9	76.9	200	Pass	500	Pass
S23-28265-HM	Mercury	ND	19.3	76.9	100	Pass	1500	Pass
S23-28265-HM	Lead	ND	19.5	76.9	500	Pass	1000	Pass

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

Pesticides Screen [MCR-TM-0009]	Analyst: IG	Test Date: 05 Nov 23
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Table 7 - S23-28265 Renew - Rasperry Diesel - Bulk Flower RasperryDiesel-F3-10122023 Flower Pesticide Testing

Test Analysis	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: ND = Not Detected; LOD = Limit of Detection; LOQ = Limit of Quantitation; ppb = parts per billion; N/A = not available. 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.

*Result is non-accredited.

Terpene Profile [MCR-TM-0016]*	Analyst: JG	Test Date: 04 Nov 23
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Table 8 - S23-28265 Renew - Raspberry Diesel - Bulk Flower RaspberryDiesel-F3-10122023 Flower Terpene Testing

Terpene	Conc. (weight %)*
α-Pinene	0.03%*
Camphene	0.02%*
β-Myrcene	0.09%*
β-Pinene	0.04%*
δ 3-Carene	ND*
α-Terpinene	0.03%*
Ocimene	0.05%*
δ-Limonene	0.09%*
p-Cymene	0.02%*
β-Ocimene	0.07%*
Eucalyptol	ND*
γ-Terpinene	ND*
Terpinolene	0.02%*
Linalool	0.06%*
Isopulegol	ND*
Geraniol	0.02%*
β-Caryophyllene	0.12%*
α-Humulene	0.05%*
Nerolidol 1	0.01%*
Nerolidol 2	0.02%*
Guaiol	ND*
Caryophyllene Oxide	ND*
α-Bisabolol	0.03%*
Sum	0.77%*

Note: ND = Not Detected.

Moisture Content [MCR-TM-0019]	Analyst: GA	Test Date: 06 Nov 23
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Table 9 - S23-28265 Renew - Raspberry Diesel - Bulk Flower RaspberryDiesel-F3-10122023 Flower Moisture Content Testing

Test Analysis	Conc. (weight %)
Moisture Content	11.1%

Note: ND = Not Detected.

END OF REPORT