Certificate of Analysis

Analytical Test Report

Client:	**Final Report**	**MCR-S21-73903 *Rev.02.00***	**Laboratory:**
Commonwealth Alternative Care 30 Mozzone Blvd Taunton, MA 02780	Report Date:	*17 JANUARY 2022*	MCR Labs 85 Speen St. Lower Level Framingham, MA 01701 508-872-6666
	METRC Tag:	**1A40A0100000BBD000011533**	

Sample ID #	Sample Name	Batch	Matrix	Date Received	Date Tested	Serving size weight
MCR-S21-73903	100mg White Chocolate Drop-Party Cake (11532)	THC-PARTYWCD-112321	MIP	2 December 2021	*07-19 December 2021*	3.5 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

ACCREDITED
CERT# 6562.01

Case Narrative:

This sample was received by MCR Labs from a RMD agent in a sealed container. For cannabinoids, the sample was extracted using organic solvents and analyzed via High Performance Liquid Chromatography (HPLC-UV). *For microbiological contaminants, the sample was prepared using cultured enrichments, was incubated for set periods of time, and analyzed via an automated Most Probable Number (MPN) methodology. For pathogenic bacterial contaminants, the sample was analyzed via a quantitative Polymerase Chain Reaction (qPCR). Pathogenic screen includes all six STEC strains, including O157. For mycotoxin contaminants, the sample was extracted using organic solvents and analyzed via enzyme-linked immunosorbent assay (ELISA).* The collected data was compared to data collected from analytical reference standards at known concentrations. 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. *Report revisions are italicized and underlined.*

Requested Testing:

Test	Code	Procedure	Analytes Tested	Disposition
Cannabinoid Profile	CN	MCR-TM-0011	CBDVA, CBDV, CBDA, CBGA, CBG, CBD, THCV, THCVA, CBCV, CBN, CBNA, D9-THC, D8-THC, CBL, THCA, CBC, CBCA, CBLA, CBT	N/A
Microbiological Screen	*MB*	*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-0015*	*Aflatoxin B1, Aflatoxin B2, Aflatoxin G1, Aflatoxin G2, Ochratoxin A*	*Pass*

Cannabinoid Profile [MCR-TM-0011] Analyst: JG/SW *Test Date: 07 Dec 21*

The sample was analyzed for cannabinoids via High Performance Liquid Chromatography (HPLC-UV). The collected data was compared to data collected from certified analytical reference standards at known concentrations.

Table 1 - S21-73903 100mg White Chocolate Drop-Party Cake (11532) THC-PARTYWCD-112321 MIP Cannabinoid Testing

Analyte	Cannabinoid	Conc. (mg/serving size)	Conc. (mg/g)	LOQ (mg/g)	LOD (mg/g)
CBDVA	Cannabidivarinic acid	ND	ND	0.1	0.01
CBDV	Cannabidivarin	ND	ND	0.1	0.02
CBDA	Cannabidiolic acid	ND	ND	0.1	0.02
CBGA	Cannabigerolic acid	ND	ND	0.1	0.02
CBG	Cannabigerol	3.36	0.96	0.1	0.04
CBD	Cannabidiol	1.23	0.35	0.1	0.03
THCV	Tetrahydrocannabivarin	0.81	0.23	0.1	0.01
THCVA	Tetrahydrocannabivarinic acid	ND	ND	0.1	0.03
CBCV	Cannabichromevarin	ND	ND	0.1	0.01
CBN	Cannabinol	1.3	0.37	0.1	0.01
CBNA	Cannabinolic acid	ND	ND	0.1	0.01
Δ9-THC	Δ9-Tetrahydrocannabinol	105.7	30.20	0.1	0.02
Δ8-THC	Δ8-Tetrahydrocannabinol	ND	ND	0.1	0.02
CBL	Cannabicyclol	ND	ND	0.1	0.02
THCA	Tetrahydrocannabinolic acid	ND	ND	0.1	0.01
CBC	Cannabichromene	ND	ND	0.1	0.01
CBCA	Cannabichromenic acid	ND	ND	0.5	0.05
CBLA	Cannabicyclolic acid	ND	ND	0.1	0.01
CBT	Cannabicitran	1.26	0.36	0.1	0.02

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-0006] *Analyst: NM/KC* *Test Date: 16-19 Dec 21*

The sample was analyzed for microbiological contaminants via an automated Most Probable Number (MPN) methodology with cultured enrichments.

Table 2 - S21-73903 100mg White Chocolate Drop-Party Cake (11532) THC-PARTYWCD-112321 MIP Microbiological Testing

Test ID	Test Analysis	Results	Unit	Limits	Disposition
21-73903-AC	Total Viable Aerobic Bacteria	<100	CFU/g	10^5 CFU/g	Pass
21-73903-YM	Total Yeast and Mold	<100	CFU/g	10^4 CFU/g	Pass
21-73903-CC	Total Coliforms	<100	CFU/g	10^3 CFU/g	Pass
21-73903-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] *Analyst: JDM* *Test Date: 18 Dec 21*

The sample was analyzed for pathogenic bacterial contamination via a quantitative Polymerase Chain Reaction (qPCR).

Table 3 - S21-73903 100mg White Chocolate Drop-Party Cake (11532) THC-PARTYWCD-112321 MIP Pathogen Testing

Test ID	Test Analysis	Result	Units	Limits	Disposition
S21-73903-ECPT	STEC	Not Detected	N/A	Not Detected in 1g	Pass
S21-73903-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-0015] *Analyst: SS/JN/TC* *Test Date: 17 Dec 21*

The sample was extracted using organic solvents and analyzed via enzyme-linked immunosorbent assay (ELISA). The collected data was compared to data collected from analytical reference standard at known concentrations.

Table 4 - S21-73903 100mg White Chocolate Drop-Party Cake (11532) THC-PARTYWCD-112321 MIP Mycotoxin Testing

Test ID	Test Analysis	Result	LOD (ppb)	LOQ (ppb)	Limits (ppb)	Disposition
S21-73903-MY	Mycotoxin	Not Detected	10	10	20	Pass

Note: ND = Not Detected; LOD = Limit of Detection; LOQ = Limit of Quantitation; ppb = part 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.

QA/QC

Cannabinoid Profile [MCR-TM-0011] *Analyst: YD* *Test Date: 07 Dec 21*

The sample data for certified reference standards was collected at known concentrations of cannabinoids in solution.

QC-0.025 mg/mL 19 cannabinoid multi-component 12/1/2021

ID	Cannabinoid	Nominal Prep Conc (mg/mL)	Measured Conc. (mg/mL)	Recovery (%)
CBDVA	Cannabidivarinic acid	0.025	0.025	100%
CBDV	Cannabidivarin	0.025	0.027	108%
CBDA	Cannabidiolic acid	0.025	0.025	100%
CBGA	Cannabigerolic acid	0.025	0.025	100%
CBG	Cannabigerol	0.025	0.026	104%
CBD	Cannabidiol	0.025	0.026	104%
THCV	Tetrahydrocannabivarin	0.025	0.026	104%
THCVA	Tetrahydrocannabivarinic acid	0.025	0.025	100%
CBCV	Cannabichromevarin	0.025	0.026	104%
CBN	Cannabinol	0.025	0.027	108%
CBNA	Cannabinolic acid	0.025	0.026	102%
Δ9-THC	Δ9-Tetrahydrocannabinol	0.025	0.026	104%
Δ8-THC	Δ8-Tetrahydrocannabinol	0.025	0.026	104%
CBL	Cannabicyclol	0.025	0.027	108%
THCA	Tetrahydrocannabinolic acid	0.025	0.026	104%
CBC	Cannabichromene	0.025	0.027	108%
CBCA	Cannabichromenic acid	0.025	0.025	98%
CBLA	Cannabicyclolic acid	0.025	0.025	100%
CBT	Cannabicitran	0.025	0.027	108%

Criteria for successful analysis is QC recovery to be ≤20% above or below nominal.

Microbiological Screen [MCR-TM-0006] *Analyst: NM/SG* *Test Date: 02 Dec 21*

Quality control checks are performed to confirm that the equipment used for reading incubated microbiological cultures, which are done at various concentrations, are working correctly and that the fluorescence readings are accurate. QC checks are performed within 30 days of the recorded measurements.

Date of most recent QC check: *Tempo2 QC 12/02/2021*
Status: *Pass*

Pathogenic Bacterial Screen [MCR-TM-0012] ***Analyst: JDM*** *Test Date: 18 Dec 21*

Quality control checks are performed to validate the equipment used for reading incubated pathogenic bacterial cultures. QC checks are run with every analysis.

Date	QC Check	Pathogen	Result	Disposition
12/18/2021	Control (+)	STEC	Positive	Pass
12/18/2021	Control (-)	STEC	Negative	Pass
12/18/2021	Control (+)	Salmonella	Positive	Pass
12/18/2021	Control (-)	Salmonella	Negative	Pass

Mycotoxin Screen [MCR-TM-0015] ***Analyst: SS/JN/TC*** *Test Date: 17 Dec 21*

Solutions were spiked with toxin reference materials at given concentrations and tested for toxin presence.

QC Sample	Result	Disposition
Negative Control	Negative	Pass
Positive Control	Positive	Pass

END OF REPORT