MCR LABS

Analytical Test Report

Client:	Final Report	MCR-S1900225 Rev.01.00	Laboratory:
Cattis Scientific	Report Date:	8 JANUARY 2019	MCR Labs 85 Speen St. Lower Level Framingham, MA 01701 508-872-6666

Sample ID #	Sample Name	Batch	Matrix	Date Received	Date Tested	Sample Weight
MCR-S19-00225	B01021555	N/A	Concentrate	3 January 2019	06-07 January 2019	N/A

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

Requested Testing:

Test	Code	Procedure	Analytes Tested
Mycotoxin Screen	MY	MCR-TM-0013	Aflatoxin B1, Aflatoxin B2, Aflatoxin G1, Aflatoxin G2, Ochratoxin A
Heavy Metals Screen	HM	MCR-TM-0008	Arsenic (As), Cadmium (Cd), Lead (Pb), Mercury (Hg)
Volatile Organics Screen	VC	MCR-TM-0007	Ethanol, Propane, Isobutane, N-butane, Hexane
Pesticides Screen	PS	MCR-TM-0009	Bifenazate, Bifenthrin, Cyfluthrin, Etoxazole, Imazalil, Imidacloprid, Myclobutanil, Spiromesifen, Trifloxystrobin

Mycotoxin Screen [MCR-TM-0013] *Analyst: JW/SG* *Test Date: 06 Jan 19*

The sample was analyzed via Liquid Chromatography - Tandem Mass Spectrometry (LC-MS/MS). The collected data was compared to data collected from analytical reference standards at known concentrations.

Test ID	Test Analysis	Result	LOD (ppb)	Limits (ppb)
19-00225-MY	*Mycotoxin*	Negative	20	20

Note: ND = Not Detected; LOD = Limit of Detection; 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.

Heavy Metals Screen [MCR-TM-0008] *Analyst: WS* *Test Date: 07 Jan 19*

The sample was analyzed via Inductively Coupled Plasma Mass Spectrometry. The collected data was compared to data collected from certified analytical reference standards at known concentrations.

Test ID	Test Analysis	Result, ppb	LOD ppb	LOQ ppb	Limits ppb
19-00225-HM	Arsenic	ND	42.8	129.3	200
19-00225-HM	Cadmium	ND	37.1	112.2	200
19-00225-HM	Mercury	ND	27.5	83.3	100
19-00225-HM	Lead	ND	23.1	70.2	500

Note: ND = Not Detected; LOD = Limit of Detection; LOQ = Limit of Quantitation; BQL = Below Quantitation Limit; 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 4.

VC Screen [MCR-TM-0007] *Analyst: DO/VB* *Test Date: 07 Jan 19*

The sample was analyzed via Gas Chromatography – Flame Ionization Detection with Headspace Autosampler. The collected data was compared to data collected from certified analytical reference standards at known concentrations.

Test ID	Analyte	Result, ppm	LOD	LOQ	Limits, ppm
19-00225-VC	Ethanol	ND	770	2568	5000
19-00225-VC	Isobutane	ND	2.3	7.5	12
19-00225-VC	n-Butane	ND	2.4	7.9	12
19-00225-VC	Ethanol	ND	77	257	5000
19-00225-VC	Hexane	ND	1.5	5.2	290

Note: ND = Not Detected; LOD = Limit of Detection; LOQ = Limit of Quantitation; BQL = Below Quantitation Limit; ppm = part per million. 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 7. The uncertainty budget for ethanol is 0.15 ppm.

Pesticides Screen [MCR-TM-0009] *Analyst: SG/JW* *Test Date: 06 Jan 19*

The sample was analyzed via Liquid Chromatography - Tandem Mass Spectrometry (LC-MS/MS). The collected data was compared to data collected from analytical reference standards at known concentrations.

Test Analysis	Result, ppb	LOD ppb	LOQ ppb	Limits ppb
Bifenazate	ND	250	825	10
Bifenthrin	ND	40	132	10
Cyfluthrin	ND	3000	9900	10
Etoxazole	ND	60	198	10
Imazalil	ND	40	132	10
Imidacloprid	ND	10	33	10
Myclobutanil	ND	10	33	10
Spiromesifen	ND	100	330	10
Trifloxystrobin	ND	20	66	10

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

END OF REPORT