

## U.S. Micro-Solutions, Inc. \* 302 Unity Plaza \* Latrobe, PA 15650 Phone: (724) 853-4047 Fax: (724) 853-4049 A2LA # 7000.01 www.usmslab.com



**Customer Name:** Sample Date: May 23, 2023 U.S. Micro Solutions, Inc. Customer Address: Date Received: May 24, 2023 302 Unity Plaza Date of Report: June 1, 2023

Latrobe, PA 15650

PO Number:

Customer Phone:

(724) 853-4047

Attention: John Smith Analysis Date: May 24, 2023

Fax:

Project Name/Number: Legionella Culture Sample Report Sample Time: 1000 Analysis Time (hrs): 29.6

Customer sample numbers below are uniquely identified by prefixing Laboratory # 12345-23  Water/Liquid Sample(s) for Legionella Culture - Analytical Method MIC 06, MIC 07 (ISO 11731:2017)					
W-1	BCYE/GPCV	2nd Floor RR			
AS = 0.2 CFU/mL (Volume examined: 250 mL)			Positive - 0.2 CFU/mL Legionella pneumophila Serogroup 2-14		
W-2	BCYE/GPCV	2nd Floor Spa			
AS = 0.2 CFU/mL (Volume e	examined: 250 mL)		Not Detected		
W-3	BCYE/GPCV	1st Floor RR			
AS = 0.2 CFU/mL (Volume examined: 250 mL)			Not Detected		
W-4	BCYE/GPCV	1st Floor Kitchen			
AS = 0.2 CFU/mL (Volume e	examined: 250 ml )		Not Detected		

Notes:	

CFU/mL = colony forming units per milliliter, AS = analytical sensitivity. Analysis time = time elapsed from sample collection to start of incubation. Results are reported as Positive or Not Detected.

A negative culture for Legionella spp. from a sample does not necessarily rule out its presence. Samples are in good condition unless otherwise noted. Results relate only to the samples tested as received. For biological data, the first and/or second digit should be considered significant.

When providing duplicates of this report, the document should be provided in total and not in section. Any unauthorized or improper disclosure, copying, distribution, use, or falsification of these results is prohibited. USMS shall have no liability to the Customer or the Customer or the Customer for opinions stated, recommendations made, actions taken, or conduct implemented based on the test results reported.



## **Interpretation of Legionella Culture Results**

There are no federal action levels for *Legionella*, however some states, agencies, and organizations have published interpretive guidelines for *Legionella* quantitative culture results. The tables below were modified from *Legionella 2019: A Position Statement and Guidance Document* published by the Association of Water Technologies; the full text and additional resources may be accessed at <a href="https://www.awt.org/legionella/">https://www.awt.org/legionella/</a>. It is ultimately the responsibility of a qualified professional to select actions that are appropriate for the situation being evaluated.

## **Legionella Control Programs: Potable Water**

Regulatory Authority	Test Frequency	Legionella Concentration (CFU/mL)	Remediation
NY City	No data		No data
NY State*	Every 90 days first year, annually thereafter	<30% positive results of sites tested	Maintain water management plan (WMP).
		≥30% positive results of sites tested	Immediate short-term control levels. Retest. Persistent ≥30% results - institute long-term control levels.
AIHA	2x/year	1-9	Continue monitoring and review WMP.
		10-100	Identify infection source and online disinfection.
		>100	Identify infection source and offline disinfection.

<sup>\*</sup> Regulation addresses covered facilities (general hospitals and residential healthcare facilities)

## **Legionella Control Programs: Cooling Towers & Evaporative Condensers**

Regulatory Authority	Test Frequency	Legionella Concentration (CFU/mL)	Remediation
NY City	At system startup and every 90 days thereafter	<10	Maintain water chemistry and biocide levels.
		≥10 - <100	Online disinfection within 24 hours. Retest.
		≥100 - <1000	Online disinfection within 24 hours. Retest. Review WMP.
		≥1000	Online disinfection within 24 hours. Offline disinfection within 48 hours. Retest. Notify DOH within 24 hours of results.
NY State	At system startup and every 90 days thereafter	<20	Maintain water chemistry and biocide levels.
		≥20 - <1000	Online disinfection immediately. Retest. Review WMP.
		≥1000	Online disinfection immediately. Retest. Review WMP. Any retest >1000 offline disinfection immediately.
AIHA	Monthly	10-99	Review WMP and retest until <10 CFU/mL.
		100-1000	Review WMP and conduct an online disinfection until consistently <10 CFU/mL.
		≥1000	Review WMP and conduct an offline disinfection until consistently <10 CFU/mL.

- NY City: Chapter 8 (Cooling Towers) of Title 24 of the Rules of the City of New York (2015)
- NY State: Protection Against Legionella (2016)
- AIHA: American Industrial Hygiene Association. Recognition and Control of Legionella in Building Water Systems (2015)

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