

**Please notice the addition of Escherichia coli - MF and Escherichia coli - MPN to accommodate specific certification requirements. Results should be reported for Escherichia coli if it is identified this way on your certification.**

This microbiological test sample is supplied as a freeze dried sample in an aseptically sealed 5 mL vial and is designed for the quantitative determination of Total Coliforms and Fecal Coliforms as E. coli. in the range 20 to 2400 CFU/100mL (or MPN/100mL) based on accepted microbial methods. One hundred (100) milliliters of Phosphate Buffer solution is provided for reconstitution of the freeze dried sample.

Only individuals with bacteriological training should use this product. Disinfect any spills and sterilize containers. Though the microorganisms used for this proficiency test are non-pathogenic, aseptic technique should be used with the assumption that all samples are potentially pathogenic. Aseptic technique is also necessary to avoid cross contamination.

Freeze the sample vial upon arrival. Keep the freeze dried sample frozen until time of reconstitution. The Phosphate Buffer should be stored at room temperature. Once the sample is reconstituted, testing should proceed immediately. Unused sample should be disposed in accordance with institutional and government guidelines.

1. Add approximately one (1) mL of the Phosphate Buffer solution buffer to the vial containing the lyophilized microorganisms using the sterile transfer pipettes supplied.
2. Mix well, by cycling the Phosphate Buffer solution in and out of the vial with the pipette or, replace stopper and cap and use a vortex mixer.
3. Completely transfer the contents of the vial to the Phosphate Buffer solution buffer bottle using the transfer pipette.
4. Shake the bottle to disperse the organisms. The sample is now ready for analysis.

Volume to be used depends on the method. Select sample portion that would yield an ideal count. This sample when prepared according to these instructions is in the NELAC specified range of 20-2400 CFU/100mL (or MPN/100mL)

Record the results of the analysis in CFU/100mL or MPN/100mL on the Data Reporting Form.

Appropriately dispose of sample vials, liquid handling materials, and Phosphate Buffer bottles.

Note: Due to the nature of microbiological samples, to run multiple methods, it is recommended that additional samples be purchased.

Analyte	Units	Concentration Range
Escherichia coli - MF	CFU/100mL	20.0 - 2400
Escherichia coli - MPN	MPN/100mL	20.0 - 2400
Fecal Coliforms as E. Coli.- MF	CFU/100mL	20.0 - 2400
Fecal Coliforms as E. Coli.- MPN	MPN/100mL	20.0 - 2400
Total Coliforms - MF	CFU/100mL	20.0 - 2400
Total Coliforms - MPN	MPN/100mL	20.0 - 2400



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