



NQAC

Nestlé Quality Assurance Center
Dublin

Technical Datasheet

Analysis Name: Detection & Enumeration of Presumptive *Escherichia coli* – Most Probable Number Technique.

Method Number: ISO-7251:2005

Scope of Application: Products intended for human consumption and the feeding of animals, and environmental samples in the area of food production and food handling, including water used in the manufacturing process.

Description: The detection and enumeration of presumptive *Escherichia coli* by means of the liquid-medium culture technique and calculation of the most probable number (MPN) after incubation at 37°C, then additional confirmation steps at 44°C.

Sample Weight Required: 25 g

Method Reference: ISO-7251:2005

Analytical Platform: Semi-Qualitative Method

Special Information: Some pathogenic strains of *Escherichia coli* do not grow at 44°C. A limitation of the applicability of this International Standard is imposed by the susceptibility of the method to a large degree of variability.



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Analyte Reported	Alias	Unit of Measure	Limit of Quantification	Reproducibility
Presumptive E. coli MPN Final	EC MPN	/g or /mL	< 0.3 /g or mL	
Presumptive E. coli MPN Final (10 Tube)	EC MPN (10 tube)	/100 mL	<1.1 /100 mL	
Presumptive E. coli Presence/Absence		Detected / Not Detected	In 1mL, 1g, 10g	