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Nestlé Quality Assurance Center
Dublin

Technical Datasheet

Analysis Name: Detection & Enumeration of Coliforms – Most Probable Number Technique

Method Number: ISO-4831:2006

Scope of Application: Products intended for human consumption and for the feeding of animals and environmental samples in the area of food production and food handling.

Description: This ISO 4831:2006 specifies a horizontal method for the detection and enumeration of coliforms using the Most Probable Number (MPN) technique. Enumeration is carried out by calculation of the most probable number (MPN) after incubation in a liquid medium at 30°C or 37°C.

Sample Weight Required: 25 g

Method Reference: ISO-4831:2006

Analytical Platform: Semi-Qualitative Method

Special Information: This enumeration method is applicable when the number sought is expected to be in the range 1 to 100 per millilitre or per gram of test sample.

Analyte Reported	Alias	Unit of Measure	Limit of Quantification	Reproducibility
Coliform MPN 30°C		Per g or Per mL	<0.3 /g or /mL	
Coliform MPN 37°C		Per g or Per mL	<0.3 /g or /mL	
Presence/Absence Coliform 30°C		Detected / Not Detected	In 1g, 1mL	
Presence/Absence Coliform 37°C		Detected / Not Detected	In 1g, 1mL	
(Water) Coliform MPN 30°C	Environmental Water (10 Tube MPN)	Per 100 mL	<1.1/100 mL	



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(Water) Coliform MPN 37°C	Environmental Water (10 Tube MPN)	Per 100 mL	<1.1/100 mL	
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