



NQAC

Nestlé Quality Assurance Center  
Dublin

# Technical Datasheet

**Analysis Name:** Detection and Enumeration of Enterobacteriaceae: Detection & MPN Enterobacteriaceae

**Method Number:** ISO 21528-1: 2017

**Scope of Application:** Raw materials, line samples, finished products, and environmental samples intended for use by sensitive consumers (infant, immunocompromised, elderly, etc.).

**Description:** Detection and enumeration of low levels of Enterobacteriaceae (EB) using Most Probable Number (MPN) technique or Presence/Absence. Samples are weighed and transferred into either a non-selective or selective enrichment broth (based on sample matrix) and incubated at 37 °C for 16 to 20 hours. Presumptive Enterobacteriaceae colonies are further subcultured onto non-selective medium, and confirmed by appropriate biochemical tests.

**Sample Weight Required:** 25 g or greater depending on detection level required.

**Analytical Platform:** MPN method

**Special Information:** Method should only be used when the levels of EB are expected to be <10 cfu/g or mL to achieve EB specifications of presence/absence or <3 cfu/g

Analyte Reported	Alias	Unit of Measure	Limit of Quantification	Reproducibility
Enterobacteriaceae MPN		Per g or Per mL	<0.3 g or mL >110 g or mL	
Enterobacteriaceae Presence/Absence		Per 100g, 10g, 1g, or per swab	Detected or Not Detected	