



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 and finished products 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 sub cultured 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		Presence/Absence	In 100 g, 10 g, 1 g	