



NQAC

Nestlé Quality Assurance Center
Dublin

Technical Datasheet

Analysis Name: Enumeration of β -glucuronidase positive *Escherichia coli* at 44 °C.

Method Number: ISO-16649-2:2001

Scope of Application: Products intended for human consumption.

Description: A quantitative method for the enumeration of *E. coli* on tryptone-bile-glucuronic medium (TBX). After incubation at 44 °C for 18 h to 24 h, typical CFU of β -glucuronidase positive *E. coli* in each dish containing less than 150 typical CFU and less than 300 total (typical and non-typical) CFU are enumerated.

This method is advantageous over traditional coliform and *E. coli* methods when the presence of coliforms is high, and an *E. coli* result is required.

Sample Weight Required: 25g

Method Reference: ISO-16649-2:2001

Analytical Platform: Cultural Method

Special Information: Strains of *E. coli* which do not grow at 44 °C and, in particular, those that are β -glucuronidase negative, such as *E. coli* O157, will not be detected.

If the presence of stressed cells is suspected, incubate for an initial period of 4 h at 37 °C, and then raise the incubation temperature to 44 °C for 18 h to 24 h. The incubation temperature shall not exceed 45 °C.

Not validated for testing on environmental samples.

Analyte Reported	Alias	Unit of Measure	Limit of Quantification	Reproducibility
E. coli Result		CFU / g	< 10 CFU / g	