



## easi-tab™ Microbiology Reference Materials

### Statement of Measurement

**Product Code:** RM92 **Lot No.:** 922201  
**Organism:** *Escherichia coli* **Format:** Vial  
**Analysis:** Enumeration of *Escherichia coli*, Enterobacteriaceae and/or Coliforms.  
**Storage:** Store at < -15°C **Passages:** 2  
**Expiry Date:** See pack for details regarding expiry dates.

**Quality Control:** A total of ten easi-tabs™ are taken from each batch and tested in accordance with the method quoted below. A statistical assessment procedure based upon analysis of variance (ANOVA) on replicate results is used to assess for “sufficient homogeneity”. (M Thompson, S L R Ellison, R Wood, ‘International Harmonised Protocol for the Proficiency Testing of Analytical Chemistry Laboratories’, *Pure Appl. Chem.*, 2006, **78**, 145-196).

The mean concentration for the batch is given in the Table below, along with the lower and upper 95% confidence limits based on an expanded uncertainty of  $\pm 0.5 \log_{10}$  (coverage factor  $k = 2$ ).

Determinand	Concentration (cfu/RM)	Lower - 0.5 Log <sub>10</sub>	Upper + 0.5 Log <sub>10</sub>
Enumeration of <i>Escherichia coli</i>	$2.01 \times 10^4$	$6.36 \times 10^3$	$6.36 \times 10^4$
Enumeration of Enterobacteriaceae	$3.39 \times 10^4$	$1.07 \times 10^4$	$1.07 \times 10^5$
Enumeration of Coliforms	$4.56 \times 10^4$	$1.44 \times 10^4$	$1.44 \times 10^5$

#### Test methods based on:

- ISO 16649-2:2001 Microbiology of food and animal feeding stuffs – Horizontal method for the enumeration of  $\beta$ -glucuronidase-positive *E. coli* – Part 2: Colony count technique at 44°C using 5-bromo-4-chloro-3-indolyl  $\beta$ -D-glucuronide (TBX agar - pour plate - incubated at 37°C for 4 hours and then further incubated at 44°C for 18-24 hours).
- ISO 21528-2:2004 Microbiology of food and animal feeding stuffs – Horizontal method for the detection and enumeration of Enterobacteriaceae – Colony count method (VRBG agar - pour plate - incubated at 37°C for 24  $\pm$ 2 hours).
- ISO 4832:2006 Microbiology of food and animal feeding stuffs – Horizontal method for the enumeration of coliforms – Colony count technique at 37°C. (VRB agar - pour plate - incubated at 37°C for 24  $\pm$ 2 hours).

**Approval Date:** 23/11/2022

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