easi-tab™

Product: RM17-S1-E1

Batch: 3124244

MICROBIOLOGICAL REFERENCE MATERIAL

Statement of Measurement

Product:	**LGCMIC-RM17-S1-E1** (Previously RM31)
Batch:	**3124244**
Microorganism:	*Pseudomonas aeruginosa* NCTC 10662
Description:	Lyophilised bacterial culture in a single vacuum-sealed vial
Analysis:	Enumeration of *Pseudomonas aeruginosa*
Expiry date:	24 months from issue date
Storage:	Store in original packaging at < -15°C before use
Passages:	No more than 3 passages from source material
Units:	Colony-forming units (cfu)

Analysis: Enumeration of ***Pseudomonas aeruginosa***			
Reference value [a] (**cfu**/vial or tablet)	**Expanded Uncertainty** [b] (log_{10} value)	**Expected Range**[c] (cfu/vial or tablet)	**Date of testing**
59	0.094	19-188	04/06/24
Test method (ref 1)	CN agar membrane filtration incubated at 37°C for 48 hours		

Certificate issue: Issue 1

Issue date: 6th August 2024

Approved by: Andrew Cheetham (Senior Technical Manager)

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Source material: NCTC 10662 supplied by NCTC (Lot 18 obtained 5/1/23). Alternative culture references WDCM:00114

Metrological traceability:
Qualitative values are traceable to the strain reference and verified by microbiological or biochemical tests. Quantitative values are traceable to the analytical method used for enumeration

Commutability: The reference value(s) have been achieved using the described test methods. Different results may be obtained using alternative methods, analysts, media, reagents etc. Users are recommended to validate product before use to determine suitability under their specific test conditions.

Intended, correct use & handling instructions: Please refer to the preparation instructions and safety data sheet provided with product. If not available, please contact LGC.

Reference Value[a]
A total of ten *easi*-tabs™ are taken from each batch and tested in accordance with the stated method for each analyte. A statistical assessment procedure based upon analysis of variance (ANOVA) on replicate results is used to assess for "sufficient homogeneity". (Ref 2). The stated reference value(s) for each analyte uses the mean value from the homogeneity results.

Expanded Uncertainty[b] and expected range[c]
The measurement uncertainty is derived from the standard deviation resulting from the mean value obtained during homogeneity testing, expanded for a 95% coverage probability. The expected range is calculated by considering the reproducibility of the routine test methods for the determination of the parameter value. In this case the reproducibility value used is 0.25 $\log_{10}$.

Stability
Stability of the microorganisms is validated before use in the product and additionally measured during the storage life of the product at the specified storage temperature.

References

1- ISO 16266 : 2006 Water Quality - Detection and enumeration of Pseudomonas aeruginosa - Method by membrane filtration

2- 'International Harmonised Protocol for the Proficiency Testing of Analytical Chemistry Laboratories', M Thompson, S L R Ellison, R Wood, Pure Appl. Chem., 2006, 78, (145-196).

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