



REFERENCE MATERIAL CERTIFICATE



A2LA Accredited
Reference Material Producer
Certificate Number 3189.03

This certificate supersedes all previous issues.

Product Name MV0029 Water/Food Universal Daily Control

Batch Number RM5781

Hazard Information This material contains micro-organisms. Please take suitable precautions at all times when handling this reference material. Please download Safety Data Sheet via below link:
[SDS Microbiological Reference Material](#)

Description of the Material Freeze dried pellet

Presentation

Number of Units provided:	Individual units are heat sealed in a plastic bag and placed in a plastic jar
Each unit consists of:	Three (3)
Units are contained in:	1 pellet
	Stoppered glass vials

Target Organism Content

- Organism Name (IFM Number)**
- Bacillus cereus (1604)*
- Clostridium perfringens (1704)*
- Enterococcus faecalis (3301)*
- Escherichia coli (2005)*
- Klebsiella aerogenes (2201)*
- Pseudomonas aeruginosa (5005)*

<i>Intended Use</i>	Microbiological Reference Material
<i>Instructions for Use</i>	<p>Store unopened material at 3 °C - 5°C protected from light until used. Use aseptic technique at all times.</p> <p>Add 10.0 mL Peptone Water or Butterfields solution. Dissolve the pellet using a sterile transfer pipette and mix thoroughly. Stand for 30 minutes. Dilute to achieve counts in suitable ranges for work being undertaken.</p> <p>Once prepared, materials must be stored between 3 °C - 5°C protected from light. Mix thoroughly before testing to resuspend settled product. Materials must only be used on the day of preparation.</p> <p>Values quoted in this certificate do not apply when the reference material is used in a manner contrary to the instructions. Values quoted have been statistically verified using the instructions described above. The specified volume in the instructions is the minimum sample size required to yield the defined quantitative parameters.</p>
<i>Date of Certification</i>	October 11, 2024
<i>Certificate Expiry</i>	January 25, 2025 This material will be recertified after this expiry date.
<i>Product Expiry</i>	April 20, 2025

Certified values and their uncertainties

Data was log transformed prior to applying statistical processes. The assigned value is the average of results on the declared day of test. The uncertainty of the assigned value is the largest standard error of each conducted test series. The lower limit takes into account the expected decline of the microbe levels over the certification interval. These have been calculated using all factors as described in ISO 17034.

Tests were conducted on:

October 2, 2024

5 replicate data points were used to generate this certificate

Results are expressed as cfu/vial

Test Name (Method Reference)	Assigned Value	Uncertainty of the Assigned Value (log)	Standard Deviation (log)	Calculated Limits for Daily Control Purposes	
				High limit	Low limit
Bacillus (IFM0719.1)	2.7E+02	0.03	0.06	9.4E+02	5.4E+01
Clostridium perfringens (IFM0718.1)	2.6E+04	0.01	0.03	9.3E+04	7.3E+03
Coliform (IFM0705)	9.1E+04	0.01	0.03	1.7E+05	7.4E+03
E. coli count (IFM0705)	3.6E+04	0.03	0.06	8.6E+04	6.3E+03
Enterococcus (IFM0711.2)	2.4E+04	0.02	0.05	9.4E+04	4.3E+03
Ps.aeruginosa (IFM0709.1)	1.2E+04	0.04	0.09	5.1E+04	4.2E+02
SPC (IFM0701.3)	2.4E+05	0.03	0.07	5.7E+05	7.4E+04

Additional Test Comments/Information

*Test Names marked with an * are not within the scope of accreditation*

Authorised By

Trevor Rumbekuan, Production Officer

Control Chart for:

Coliform (IFM0705)

Certification Date: 11/10/2024

Expiry: 25/01/2025

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CRM Solution Preparation Date	Test Date	Details of settings / dilutions	Media Name and Batch / Method details	Date / Initials	Count obtained	less than 7372	7373 to 39390	39391 to 71408	71409 to 103426	103427 to 135445	135446 to 167463	more than 167463	Date / Initials
Assessed and reviewed by:			Comments:										

Control Chart for:

Ps.aeruginosa (IFM0709.1)

Certification Date: 11/10/2024

Expiry: 25/01/2025

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less than	424
	425
to	10553
	10554
to	20682
	20683
to	30810
	30811
to	40939
	40940
to	51068
more than	51068

CRM Solution Preparation Date	Test Date	Details of settings / dilutions	Media Name and Batch / Method details	Date / Initials	Count obtained
Assessed and reviewed by:			Comments:		

