



# REFERENCE MATERIAL CERTIFICATE



This certificate supersedes all previous issues.

A2LA Accredited  
Reference Material Producer  
Certificate Number 3189.03

**Product Name** MV0029 Water/Food Universal Daily Control

**Batch Number** RM5818

**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)

<b><i>Intended Use</i></b>	Microbiological Reference Material
<b><i>Instructions for Use</i></b>	<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>
<b><i>Date of Certification</i></b>	January 20, 2025
<b><i>Certificate Expiry</i></b>	March 6, 2025 <span style="float: right;">This material will be recertified after this expiry date.</span>
<b><i>Product Expiry</i></b>	October 31, 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: November 26, 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 (IFM0719.2)	9.4E+03	0.01	0.02	3.3E+04	2.0E+03
Clostridium perfringens (IFM0718.1)	4.1E+03	0.03	0.07	1.4E+04	1.1E+03
Coliform (IFM0705)	1.5E+05	0.07	0.16	2.8E+05	1.6E+04
E. coli count (IFM0705)	1.0E+05	0.07	0.16	2.5E+05	2.0E+04
Enterococcus (IFM0711.2)	3.2E+04	0.02	0.04	1.3E+05	6.1E+03
Ps.aeruginosa (IFM0709.2)	5.5E+04	0.04	0.08	2.3E+05	2.5E+03
SPC (IFM0701.3)	4.6E+05	0.02	0.05	1.1E+06	1.5E+05

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:

### Bacillus (IFM0719.2)

Certification Date: 20/01/2025

Expiry: 6/03/2025

less than	1977	
1978	to	8172
8173	to	14368
14369	to	20563
20564	to	26759
26760	to	32954
more than	32954	

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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	1977	1978	to	8172	8173	to	14368	14369	to	20563	20564	to	26759	26760	to	32954	more than	32954	Date / Initials	

Assessed and reviewed by:

Comments:

Control Chart for:

**Clostridium perfringens (IFM0718.1)**

Certification Date: 20/01/2025

Expiry: 6/03/2025

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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	1126	to	3791	to	6456	to	9121	to	11787	to	14452	more than	14452	Date / Initials	
Assessed and reviewed by:			Comments:																		

Control Chart for:

### Coliform (IFM0705)

Certification Date: 20/01/2025

Expiry: 6/03/2025

less than	15917
15918	to 69110
69111	to 122303
122304	to 175496
175497	to 228688
228689	to 281881
more than	281881

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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 15917	15918 to 69110	69111 to 122303	122304 to 175496	175497 to 228688	228689 to 281881	more than 281881	Date / Initials
Assessed and reviewed by:			Comments:										

Control Chart for:

### E. coli count (IFM0705)

Certification Date: 20/01/2025

Expiry: 6/03/2025

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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 20200	to 20201	to 65737	to 65738	to 111274	to 111275	to 156811	to 156812	to 202348	to 202349	to 247886	more than 247886	Date / Initials		

Assessed and reviewed by:

Comments:

Control Chart for: Enterococcus (IFM0711.2)						6129	30520	54911	79302	103694	128085	MV0029 Water/Food Universal Daily Control RM5818
Certification Date: 20/01/2025 Expiry: 6/03/2025						less than	to	to	to	to	more than	
CRM Solution Preparation Date	Test Date	Details of settings / dilutions	Media Name and Batch / Method details	Date / Initials	Count obtained	6130	30521	54912	79303	103695	128086	Date / Initials
Assessed and reviewed by:			Comments:									



Control Chart for:

**Ps.aeruginosa (IFM0709.2)**

Certification Date: 20/01/2025

Expiry: 6/03/2025

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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 2469	2470 to 48369	48370 to 94270	94271 to 140171	140172 to 186072	186073 to 231973	more than 231973	Date / Initials
Assessed and reviewed by:			Comments:										

Control Chart for:

SPC (IFM0701.3)

Certification Date: 20/01/2025

Expiry: 6/03/2025

less than	149010																						
	149011	to	338613																				
	338614	to	528215																				
	528216	to	717817																				
	717818	to	907420																				
	907421	to	1097022																				
	more than		1097022																				

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Date / Initials

CRM Solution Preparation Date	Test Date	Details of settings / dilutions	Media Name and Batch / Method details	Date / Initials	Count obtained	less than	149010	to	338613	338614	to	528215	528216	to	717817	717818	to	907420	907421	to	1097022	more than	1097022	Date / Initials		
					</																					