



REFERENCE MATERIAL CERTIFICATE



This certificate supersedes all previous issues.

A2LA Accredited
Reference Material Producer
Certificate Number 3189.03

Product Name FM0031 Gram +ve Daily Control

Batch Number RM5197

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:
http://proficiency.ifmqs.com.au/dropbox/information/QMT025_MSDS_Microbiological_Reference_Material.pdf

Description of the Material Generic powder

Presentation

Number of Units provided:	Each set is heat sealed in a plastic bag
Each unit consists of:	Five (5)
Units are contained in:	10-12 g
	Plastic sachet

Target Organism Content

Organism Name (IFM Number)
Bacillus cereus (1600)
Lactiseibacillus rhamnosus (1504)
Staphylococcus aureus (3004)

<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>Accurately weigh a minimum of 10 g of powder and prepare a working solution using Peptone Water or Butterfields Solution. While the most common dilution is 1:10, any ratio can be used to yield desired counts. The presented powder is ready-to-test as presented.</p> <p>Once prepared, materials can be stored between 3 °C - 5°C protected from light. Mix thoroughly before testing to resuspend settled product. Materials can be used throughout the day. Use the materials within 24 hours.</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>	July 19, 2024
<i>Certificate Expiry</i>	November 30, 2024 This material will be recertified after this expiry date.
<i>Product Expiry</i>	March 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: July 15, 2024
5 replicate data points were used to generate this certificate

Results are expressed as cfu/g of material that is "ready-to-test".

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)	1.8E+04	0.01	0.03	6.3E+04	4.2E+03
Coag +ve Staph (IFM0716.2)	2.7E+02	0.05	0.12	6.4E+02	5.6E+01
Lactic (IFM0710.3)	1.0E+04	0.06	0.14	1.2E+05	5.4E+02
SPC (IFM0701.3)	1.6E+04	0.01	0.03	3.8E+04	4.0E+03

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: 19/07/2024

Expiry: 30/11/2024

CRM Solution Preparation Date	Test Date	Details of settings / dilutions	Media Name and Batch / Method details	Date / Initials	Count obtained	less than	4184														FM0031 Gram +ve Daily Control
						4185	to	15980	15981	to	27777	27778	to	39574	39575	to	51371	51372	to	63168	more than
Assessed and reviewed by:			Comments:																		

Control Chart for:

Coag +ve Staph (IFM0716.2)

Certification Date: 19/07/2024

Expiry: 30/11/2024

CRM Solution Preparation Date	Test Date	Details of settings / dilutions	Media Name and Batch / Method details	Date / Initials	Count obtained	less than 56	57 to 172	173 to 288	289 to 404	405 to 519	520 to 635	more than 635	FM0031 Gram +ve Daily Control RM5197 Date / Initials
Assessed and reviewed by:			Comments:										

Control Chart for:

Lactic (IFM0710.3)

Certification Date: 19/07/2024

Expiry: 30/11/2024

less than 540
541 to 24363
24364 to 48186
48187 to 72009
72010 to 95832
95833 to 119655
more than 119655

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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 540	541 to 24363	24364 to 48186	48187 to 72009	72010 to 95832	95833 to 119655	more than 119655	Date / Initials
Assessed and reviewed by:			Comments:										

Control Chart for:

SPC (IFM0701.3)

Certification Date: 19/07/2024

Expiry: 30/11/2024

CRM Solution Preparation Date	Test Date	Details of settings / dilutions	Media Name and Batch / Method details	Date / Initials	Count obtained	less than	4020	to	10770	to	17520	to	24269	to	31019	to	37769	more than	37769	FM0031 Gram +ve Daily Control
						4021	10771	17521	24270	31020	37770	RM5197								
																				Date / Initials
Assessed and reviewed by:			Comments:																	