



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 | RM5654 | |
| Hazard Information | <p>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:</p> <p>SDS Microbiological Reference Material</p> | |
| Description of the Material | Generic powder | |
| Presentation | <p>Number of Units provided:</p> <p>Each unit consists of:</p> <p>Units are contained in:</p> | <p>Each set is heat sealed in a plastic bag</p> <p>Five (5)</p> <p>10-12 g</p> <p>Heat-sealed packet/sachet</p> |
| Target Organism Content | <p>Organism Name (IFM Number)</p> <p><i>Bacillus cereus</i> (1600)</p> <p><i>Lactiseibacillus rhamnosus</i> (1504)</p> <p><i>Staphylococcus aureus</i> (3004)</p> | |

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|--|---|---|
| <i>Intended Use</i> | Microbiological Reference Material | |
| <i>Instructions for Use</i> | Store unopened material at 3 °C - 5°C protected from light until used. Use aseptic technique at all times. | |
| | 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. | |
| | Mix thoroughly before testing to resuspend settled product. Materials must only be used on the day of preparation. Once prepared, materials must be stored between 3 °C - 5°C protected from light. | |
| 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. | | |
| <i>Date of Certification</i> | August 14, 2025 | |
| <i>Certificate Expiry</i> | November 14, 2025 | This material will be recertified after this expiry date. |
| <i>Product Expiry</i> | March 15, 2026 | |

Certified values and their uncertainties

Tests were conducted on:

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.

August 6, 2025
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 cereus Count (IFM0719.2) | 1.1E+04 | 0.03 | 0.07 | 3.7E+04 | 2.6E+03 |
| Coagulase +ve Staph spp. Count (IFM0716.2) | 2.0E+03 | 0.02 | 0.05 | 4.7E+03 | 5.1E+02 |
| Lactic Acid Bacteria Count (IFM0710.3) | 5.6E+03 | 0.03 | 0.06 | 6.6E+04 | 3.4E+02 |
| Standard Plate Count (IFM0701.3) | 7.7E+03 | 0.02 | 0.05 | 1.8E+04 | 2.2E+03 |
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Additional Test Comments/Information

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

Authorised By

Trevor Rumbekuan, Production Officer

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|--|-----------|---------------------------------|---------------------------------------|-----------------|----------------|--------------------|------|----|------|----|-------|----|-------|----|-------|----|-------|----------------------------------|-----------------|
| Control Chart for: Bacillus cereus Count (IFM0719.2) | | | | | | 2584 | | | | | | | | | | | | FM0031 Gram +ve Daily Control | |
| Certification Date: 14/08/2025 | | | | | | Expiry: 14/11/2025 | | | | | | | | | | | | RM5654 | |
| CRM Solution Preparation Date | Test Date | Details of settings / dilutions | Media Name and Batch / Method details | Date / Initials | Count obtained | less than | 2585 | to | 9453 | to | 16320 | to | 23187 | to | 30055 | to | 36922 | more than | Date / Initials |
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| Control Chart for: Coagulase +ve Staph spp. Count (IFM0716.2) | | | | | | 513 | | | | | | | | | | | | FM0031 Gram +ve Daily Control |
| Certification Date: 14/08/2025 | | | | | | Expiry: 14/11/2025 | | | | | | | | | | | | |
| CRM Solution Preparation Date | Test Date | Details of settings / dilutions | Media Name and Batch / Method details | Date / Initials | Count obtained | less than | 514 | to | 1358 | to | 2203 | to | 3049 | to | 3894 | to | 4739 | |
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| Control Chart for: Lactic Acid Bacteria Count (IFM0710.3) | | | | | | 337 | | | | | | | | | | | FM0031 Gram +ve Daily Control | | | | | | | | |
| Certification Date: 14/08/2025 | | | | | | Expiry: 14/11/2025 | | | | | | 338 | to | 13471 | to | 26604 | to | 39738 | to | 52872 | to | 66005 | more than | 66005 | RM5654 |
| CRM Solution Preparation Date | Test Date | Details of settings / dilutions | Media Name and Batch / Method details | Date / Initials | Count obtained | less than | | | | | | | | | | | | | | | | | | | Date / Initials |
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| Control Chart for: Standard Plate Count (IFM0701.3) | | | | | | 2225 | | | | | | | | | | | FM0031 Gram +ve Daily Control | |
| Certification Date: 14/08/2025 | | | | | | Expiry: 14/11/2025 | | | | | | | | | | | | RM5654 |
| CRM Solution Preparation Date | Test Date | Details of settings / dilutions | Media Name and Batch / Method details | Date / Initials | Count obtained | less than | 2226 | to | 5406 | to | 8586 | to | 11766 | to | 14947 | to | 18126 | Date / Initials |
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