

FOOD CHAIN MICROBIOLOGY STANDARDS

NEWSFLASH # 28
from September 2023 to February 2024



Normative, Scientific, Regulatory News & bioMérieux Certifications Update

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You can also refer to the website of ISO/TC 34/SC 9
<https://committee.iso.org/home/tc34sc9>

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New publications in Food Microbiology : EN and ISO standards, FDA-BAM, USDA/FSIS-MLG Methods

ISO STANDARDS ON FOOD MICROBIOLOGY

(FROM SEPTEMBER 2023 UNTIL FEBRUARY 2024)

Reference	Progress	Comments/changes
<p>ISO 7251/A1</p> <p>Horizontal method for the detection and enumeration of presumptive <i>Escherichia coli</i> - Most probable number technique - Amendment 1 : inclusion of performance</p>	<p>Published on October 2023</p>	<ul style="list-style-type: none"> ■ Update references to other ISO standards. ■ Inclusion table for culture media performance testing (LST, EC and Kovac's reagent)
<p>ISO 6888-1/A1</p> <p>Horizontal method for the enumeration of coagulase-positive staphylococci (<i>Staphylococcus aureus</i> and other species) - Part 1: Method using Baird-Parker agar medium - Amendment 1</p>	<p>Published on September 2023</p>	<ul style="list-style-type: none"> ■ Inclusion references to ISO 19036. ■ Correction errors: <ul style="list-style-type: none"> - Removing WDCM 00090 for Rabbit plasma/BHI performance testing. - Assigning correct numbers to the strains used for RPFA performance testing (<i>S. epidermidis</i> WDCM00036 and <i>S. saprophyticus</i> WDCM00159).
<p>ISO 6888-2/A1</p> <p>Horizontal method for the enumeration of coagulase-positive staphylococci (<i>Staphylococcus aureus</i> and other species) - Part 2: Method using rabbit plasma fibrinogen</p>	<p>Published on September 2023</p>	<ul style="list-style-type: none"> ■ Modification scope: Particularly suitable for fermented or other products containing <i>Staphylococcus</i> spp. like cheeses from raw milk and other raw meat products. ■ Inclusion references to ISO 19036.
<p>ISO 15213-2</p> <p>Horizontal method for the detection and enumeration of <i>Clostridium</i> spp. - Part 2 : enumeration of <i>Clostridium perfringens</i> by colony-count technique</p>	<p>Published on November 2023</p>	<ul style="list-style-type: none"> ■ New standard replacing ISO 7937:2004 (major changes) including: <ul style="list-style-type: none"> - Scope expanded to primary production. - Heat treatment for spores optional. - Media name changed from SC to TSC (same formulation). - Confirmatory methods changed (according ISO 14189) to acid phosphatase test or sulfite indol motility test (SIM). - Annexes included with flow diagram, testing for culture media, method performance characteristics and molecular methods to differentiation between pathogenic and non-pathogenic <i>C. perfringens</i> and differentiation of <i>C. perfringens</i> type A.
<p>ISO 17468</p> <p>Technical requirements and guidance on the establishment or revision of a standardized reference method</p>	<p>Published on November 2023</p>	<ul style="list-style-type: none"> ■ Replaces ISO 17468:2016: <ul style="list-style-type: none"> - Cross references to ISO 16140 standards - Optional step for method optimization - Inclusion of confirmatory and typing methods - Assessment of the changes (major/minor)

FDA / BACTERIOLOGICAL ANALYTICAL MANUAL (BAM) (FROM SEPTEMBER 2023 UNTIL FEBRUARY 2024)

Reference	Progress	Comments/changes
CHAPTER 5 <i>Salmonella</i>	Revised in September 2023	<ul style="list-style-type: none"> ■ Section D.7 updated by requiring the use of both typical and atypical <i>Salmonella</i> culture controls for sample analysis.
CHAPTER 29 <i>Cronobacter</i>	Revised in November 2023	<ul style="list-style-type: none"> ■ Changes on qPCR setup (thermocycler, chemistry, wash buffer...). ■ Added temperature/time tolerances for enrichment and isolation. ■ Added optional use of isolation agars and phenotype descriptions. ■ Updated nomenclature.

USDA / FSIS – MICROBIOLOGY LABORATORY GUIDEBOOK (MLG) (FROM SEPTEMBER 2023 UNTIL FEBRUARY 2024)

Reference	Progress	Comments/changes
MLG 1.02 Laboratory System: Introduction, Method Performance Expectations, and Sample Handling for Microbiology	Revised in February 2024	<ul style="list-style-type: none"> ■ Reducing time for reporting results. ■ Method selection performance criteria for qualitative methods. ■ Describe resubmission of samples. ■ Updated the contact information.

bioMérieux alternative methods validations follow-up (Since September 2023 until February 2024)

ISO 16140-2 validations*

Product/Solutions	Progress	Main information to retain	Reference and package insert version (where the update is integrated)
GENE-UP SALMONELLA 2 BIO 12-38-06/16 Exp. 30-06-2024	Extension AFNOR certification (October 2023-February 2024)	<ul style="list-style-type: none"> ■ 375 g test portion size validated for milk powders, infant formula, early life nutrition and chocolate/confectionary with and without BACTVIAB PMAxx pretreatment for viable bacteria. ■ 375g test portion size for raw materials for chocolate industry including EGENE-UP EASYPREP sample preparation solution. 	Ref. 050555-07/07bis-08
GENE-UP CRONOBACTER SPP. BIO 12/42-03/18 Exp. 23-03-2026	Extension AFNOR certification (October 2023)	<ul style="list-style-type: none"> ■ New protocol for 300 g test portion size for milk powders, infant formula and early life nutrition including BACTVIAB PMAxx pretreatment for viable bacteria. 	Ref. 048679-07
GENE-UP EHEC 2018LR84 Exp. 12-12-2027	Renewal	<ul style="list-style-type: none"> ■ No modification 	Ref. 43-04330-E

Product/Solutions	Progress	Main information to retain	Reference and package insert version (where the update is integrated)
REBECCA AES 10/06-01/08 AES 10/07-01/08 EXP. 17-01-2028	Renewal	■ No modification	Ref. 044011-02/03
TEMPO BC 2014LR47 EXP. 30-12-2027	Renewal	■ No modification	Ref. 9302582-C
TEMPO CAM BIO 12/43-04/20 EXP.04/2028	Renewal	■ No modification	Ref. 21985-B
VIDAS LMO2 BIO 12/11-03/04 EXP.03/2028	Renewal	■ No modification	Ref 045204-06

*(internationally recognized)

AOAC-OMA validations

No new validations/updates

AOAC-RI validations

AOAC PTM validations have not been renewed for the following methods:

- PTM 100702: VIDAS *Listeria* Duo (LDUO) Ref. 30225 for Detection *Listeria monocytogenes* and *Listeria* spp.
- PTM 071201 : CampyFood agar (ref. 43471) for Detection *Campylobacter* spp.

To access to official validation reports:

<https://nf-validation.afnor.org/en/food-industry/>
<https://microval.org/en/issued-certificates/>
https://members.aoac.org/AOAC/PTM_Validated_Methods.aspx
<https://academic.oup.com/aoac-publications/book/45491>

To access to all validations of bioMerieux alternative methods, check the bioMerieux industry website:

<https://www.biomerieux.com/corp/en/our-offer/food-safety-and-quality.2.html#product-list>
 Select the product, e.g., GENE-UP®

<https://www.biomerieux.com/corp/en/our-offer/industry-products/gene-up-automated-pathogen-detection.html>

Choose "Downloads" and access to the last GENE-UP® List of Validated Methods

Key publications (rules or regulations, guidelines, scientific advices)

EU MICROBIOLOGICAL CRITERIA

European regulation
No new EU regulation amending EC 2073/2005 Microbiological criteria for foodstuffs.

EU OFFICIAL CONTROL

No new regulation.

SCIENTIFIC ADVICES AND GUIDELINES

EU scientific advices/opinions

- Roadmap for the integration of environmental microbiomes in risk assessments under EFSA's remit
<https://www.efsa.europa.eu/en/efsajournal/pub/en-8602>
- The European Union One Health 2022 Zoonoses Report
<https://www.efsa.europa.eu/en/efsajournal/pub/8442>
- Persistence of microbiological hazards in food and feed production and processing environments
<https://www.efsa.europa.eu/en/efsajournal/pub/8521>
- EURL Lm Technical Guidance Document on sampling the food processing area and equipment for the detection of *Listeria monocytogenes*
<https://zenodo.org/records/8406616>
- Microbiological hazards associated with the use of water in the post-harvest handling and processing operations of fresh and frozen fruits, vegetables and herbs (ffFVHs). Part 1 (outbreak data analysis, literature review and stakeholder questionnaire)
<https://efsa.onlinelibrary.wiley.com/doi/epdf/10.2903/j.efsa.2023.8332>
- Shigellosis - Annual Epidemiological Report for 2022
https://www.ecdc.europa.eu/sites/default/files/documents/SHIG_AER_2022_Report.pdf
- Hepatitis A - Annual Epidemiological Report 2022
https://www.ecdc.europa.eu/sites/default/files/documents/HEPA_AER_2022_Report.pdf
- STEC infection - Annual Epidemiological Report for 2022
https://www.ecdc.europa.eu/sites/default/files/documents/STEC_AER_2022_Report.pdf
- Listeriosis - Annual Epidemiological Report for 2022
https://www.ecdc.europa.eu/sites/default/files/documents/LIST_AER_2022_Report.pdf
- Salmonellosis - Annual Epidemiological Report for 2022
https://www.ecdc.europa.eu/sites/default/files/documents/SALM_AER_2022_Report.pdf

IDF Bulletin

- IDF N° 525/2023: Practical considerations of sampling when monitoring dairy food production (October 2023). CONTENTS: Harmonized sampling process is proposed to provide accurate and comparable results to identify in-line contamination or quality implications proactively.
<https://doi.org/10.56169/NIQK7455>

USDA FSIS policy (Guidelines)

- <https://www.fsis.usda.gov/policy/fsis-guidelines>
- Foodborne Pathogen Test Kits Validated by Independent Organizations
<https://www.fsis.usda.gov/guidelines/2019-0008>

FAO/WHO advices

- Measures for the control of non-typhoidal Salmonella spp. in poultry meat
<https://www.fao.org/documents/card/en/c/cc9026en>
- Prevention and control of microbiological hazards in fresh fruits and vegetables – Parts 1 & 2: General principles
<https://www.fao.org/documents/card/en/c/cc8490en>
- Prevention and control of microbiological hazards in fresh fruits and vegetables – Part 4: Specific commodities
<https://www.fao.org/documents/card/en/c/cc7460en>

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Scientific Affairs bioMérieux – Food