

REGULATORY NEWS 2023

New EN ISO 7704 on requirements for performance testing of membrane filters

New EN ISO 7704 at a glance

- EN ISO 7704:2023 has replaced ISO 7704:1985
- **Applies to all membrane filters used with solid culture media**
- For tests designed to demonstrate the suitability of the entire system (membrane filter in combination with the culture medium) including the filtration step
- **Applies to manufacturers and microbiological laboratories**
- Describes the required batch testing of membrane filters in combination with the specific selective culture medium
- Testing to be performed for each batch of membrane filters with each batch of different culture media
- No need to evaluate the batch of membrane filters separately from the batch of culture medium
- **Performance testing for productivity, selectivity and specificity, aligned with EN ISO 11133**
- Description of optional quantitative and qualitative supplementary testing
- Practical example of batch testing and optional additional testing
- Diagrams of the procedures added

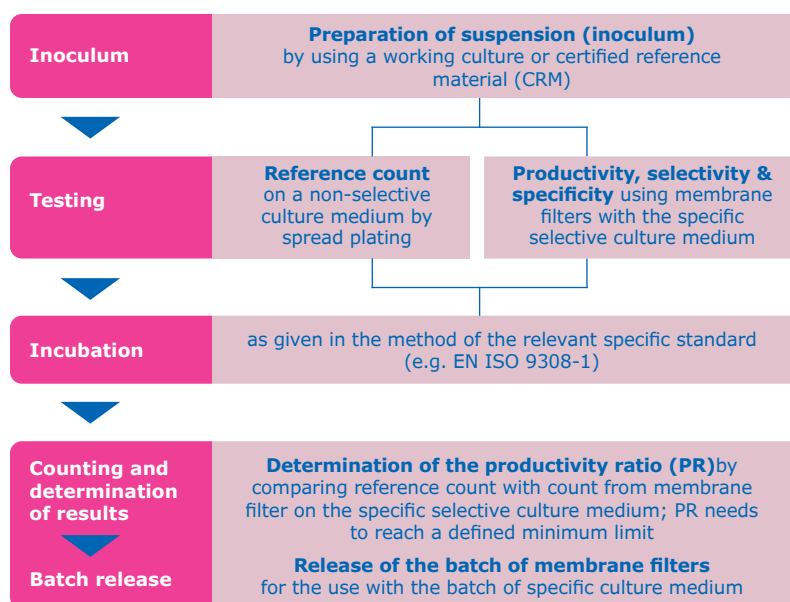
The International Organization for Standardization (ISO) has recently published the EN ISO 7704:2023 standard, which specifies the requirements for performance testing of membrane filters used for the retention and subsequent direct enumeration of microorganisms by culture methods.

It applies to the analysis of different water samples, including:

- Drinking water, bottled water and other water samples with expected low numbers of microorganisms.
- Water with expected higher numbers of microorganisms, for example, surface water or process water.

Steps in the procedure for batch testing of membrane filters according to the new EN ISO 7704:

Step



As a worldwide leading provider of a broad range of membrane filters and of dehydrated granulated and ready-to-use culture media for food, beverage and water microbiology, Merck closely tracks and supports the development of relevant standards aimed at increasing consumer confidence and safety.

Our sterile membrane filters for microbial testing are ready-to-use and has an outstanding bioburden recovery. Our **S-Pak® Filters** are individually packed and easy to use with gloved hands. For high throughput applications, our **EZ-Pak® Membranes** used with **EZ-Pak® Dispenser** Curve allows easy membrane handling with a flick of the hand. Both Membranes come in 4 x 150pcs packaging.

Compliance with the new EN ISO 7704

Merck has already implemented all the requirements described in the new EN ISO 7704 for its relevant products (visit [merckmillipore.com/culture-media](https://www.merckmillipore.com/culture-media) for further information). The following culture media and accessories are available for testing according to the new EN ISO 7704:

Ordering Information

Product	Product type	Pack size	Catalog No.
S-Pak® 0.45 µm MCE Membrane White gridded	pcs/pack	600	HAWG047S6
S-Pak® 0.45 µm MCE Membrane Black gridded	pcs/pack	600	HABG047S6
EZ-Pak® 0.45 µm MCE Membrane White gridded	pcs/pack	600	EZHAWG474
EZ-Pak® 0.45 µm MCE Membrane Black gridded	pcs/pack	600	MSP000814
Microfil Funnels 100 mL with S-Pak® 0.45 µm MCE Membrane White gridded	Funnel + membrane	150 pcs	MIHAWG100
Microfil® Funnels 250 mL with S-Pak® 0.45 µm MCE Membrane White gridded	Funnel + membrane	150 pcs	MIHAWG250
Microfil® Funnel 100 mL with EZ-Pak® 0.45 µm MCE Membrane White gridded	Funnel + membrane	150 pcs	MZHAWG101
Microfil® Funnel 2500 mL with EZ-Pak® 0.45 µm MCE Membrane White gridded	Funnel + membrane	150 pcs	MZHAWG251
Microfil® Funnels 100 mL with S-Pak® 0.45 µm MCE Membrane Black gridded	Funnel + membrane	150 pcs	MIHABG100
Microfil® Funnels 250 mL with S-Pak® 0.45 µm MCE Membrane Black gridded	Funnel + membrane	150 pcs	MIHABG250
Microfil® Funnel 100 mL with EZ-Pak® 0.45 µm MCE Membrane Black gridded	Funnel + membrane	150 pcs	MZHABG101
Microfil® Funnel 2500 mL with EZ-Pak® 0.45 µm MCE Membrane Black gridded	Funnel + membrane	150 pcs	MZAHABG251
ReadyPlate™55 KIT CCA Agar ISO 9308	Plates + EZ Pak Membrane	150 pcs	1.46758.0150
ReadyPlate™55 KIT Slanetz and Bartley agar ISO 7888	Plates + EZ Pak Membrane	150 pcs	1.46766.0150
ReadyPlate™55 KIT CN agar ISO 16266	Plates + EZ Pak Membrane	150 pcs	1.46768.0150
ChromoCult® Coliform agar acc.to ISO 9308-1	DCM	500 g	1.10426.0500
Bactident® Oxidase	Test strips	50	1.00181.0002
GranuCult® SLANETZ and BARTLEY agar incl. TTC acc. ISO 7899	DCM	500 g	1.05262.0500
GranuCult® TSC (Tryptose Sulfite Cycloserine) agar (base) acc. ISO 7937 and ISO 14189	DCM	500 g	1.11972.0500
Clostridium perfringens selective supplement	DCM supplements	1x 10 vials	1.00888.0010
GranuCult® Pseudomonas CFC/CN agar (base) acc. ISO 13720 and ISO 16266	DCM	500 g	1.07620.0500
Pseudomonas CN Selective Supplement	DCM supplements	1x 10 vials	1.07624.0010

*DCM = dehydrated culture media



To place an order or receive technical assistance in Europe, please call Customer Service:
 France: 0825 045 645
 Germany: 069 86798021
 Italy: 848 845 645
 Spain: 901 516 645 Option 1
 Switzerland: 0848 645 645
 United Kingdom: 0870 900 4645

For other countries across Europe, please call: +44 (0) 115 943 0840
 Or visit: [SigmaAldrich.com/offices](https://www.SigmaAldrich.com/offices)
 For Technical Service visit: [SigmaAldrich.com/techservice](https://www.SigmaAldrich.com/techservice)

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