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**NATIONAL STANDARD OF THE
PEOPLE'S REPUBLIC OF CHINA**

GB/T 48028-2026

**Aerosol bacterial retention test method for air-inlet filter on
infusion and transfusion devices**

输液、输血器具进气器件气溶胶细菌截留试验方法

(English Translation)

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Table of Contents

Foreword

1 Scope

2 Normative references

3 Terms and Definitions

Foreword

This document complies with the provisions of GB/T 1.1-2020 "Standardization Work Guidelines Part 1: Structure and Drafting Rules of Standardization Documents".

This document adopts ISO 24072:2023 "Test method for aerosol bacterial retention of infusion apparatus air intake devices".

The following minimal editorial changes have been made to this document.

---To align with existing standards, the standard name has been changed to "Test Method for Aerosol Bacterial Retention of Air Intake Devices for Infusion and Blood Transfusion Equipment".

1 Scope

This document describes a method for aerosol bacterial retention testing of separate or integrated air intake devices for infusion and blood transfusion equipment.

2 Normative references

This document has no normative references.

3 Terms and Definitions

The following terms and definitions apply to this document.

The URLs for the terminology databases maintained by ISO and IEC for standardization are as follows.

3.5

The probability of a single live microorganism remaining on the product after sterilization.
[Source: GB/T 19971-2026, 3.307, with modifications]

3.1 Aerosol

Suspension of solid or liquid particles in a gas.

3.3 Collecting fluid

Collecting fluid

The liquid used to collect challenging bacteria and for subsequent counting analysis is contained in a liquid impact sampler.

3.4 Liquid Impinger

Collect challenge bacteria into a designated collection solution in a glass vial connected to an air pump for analysis.

Note 1: The impact sampler inlet extends near the bottom of the glass bottle, drawing air in through a port near the top of the bottle, causing the air to bubble. Microorganisms are collected through a collection solution.

Note 2: Impact samplers are also known as bubblers.

3.6 Sterilization

The process that has been confirmed to eliminate any surviving microorganisms in the product.