

ICS 11.220

CCS B 41



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

GB/T 47222-2026

**Technical specification for the biosafety control of animal
experiments involving pathogenic infections**

病原感染动物实验生物安全控制技术规范

Issued on: February 27, 2026

Implemented on: September 1, 2026

**Issued by: State Administration for Market Regulation;
Standardization Administration of the PRC**

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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". Drafting. Please note that some content in this document may involve patents. The issuing organization of this document assumes no responsibility for identifying patents. This document was proposed by the Ministry of Agriculture and Rural Affairs of the People's Republic of China. This document is under the jurisdiction of the National Technical Committee on Animal Health Standardization (SAC/TC181). This document was drafted by: China National Accreditation Service for Conformity Assessment (CNAS), Qingdao Customs Technology Center, and China Animal Health and Epidemiology Center. Harbin Veterinary Research Institute of Chinese Academy of Agricultural Sciences, Shandong Provincial Animal Disease Prevention and Control Center, and Chinese Center for Disease Control and Prevention

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This document aims to reduce the risks of pathogen infection in animal experiments, with a focus on biosafety control. Currently, my country's biosafety... Relevant national standards include GB 19489 "General Requirements for Laboratory Biosafety" and GB 50346 "Technical Specifications for Biosafety Laboratory Buildings". Standards such as GB/T 35823 "General Requirements for Laboratory Animal Experiments" mainly address laboratory management, laboratory building facilities, and laboratory animals. While general requirements are set, there are currently no technical guidelines for biosafety control throughout the entire process, from pre-experiment preparation and experimental operations to experimental waste disposal. There is an urgent need to develop national standards that guide the development of technical standards for biosafety control throughout the entire process of animal experiments involving pathogen infection. This document focuses on the biosafety control of animal experiments involving pathogen infection, comprehensively reviewing the biosafety aspects of experimental procedures. This document identifies key risk points and proposes preventative measures for these risks. It not only provides guidance for each operational step in animal experiments involving pathogen infection, but also addresses these risks. How to provide comprehensive technical guidance for preventing biosafety risks, prevent and control potential hazards, and provide support for subsequent actions after a hazard occurs? Provide scientific advice for effective handling. Biosafety Control Technical Specifications for Animal Experiments with Pathogen Infection

1 Scope

GB/T 47222-2026 is the Chinese national standard covering keeping an infection inside an animal facility - the containment level, the caging and ventilation, the personal protection, the handling of bedding, carcasses and waste, and the procedures for a spill or an escape. First edition, in force since 1 September 2026. It was issued on 27 February 2026 and has been in force since 1 September 2026, as a first edition. The document is under the responsibility of the Ministry of Agriculture and Rural Affairs. This page is published from the official record of the 2026 edition; the clause text of a standard this recent is not yet in circulation, and the figures, limits and tables it contains are those of the document itself, delivered in full with the English translation.

This document specifies the risk assessment, pre-experiment preparation, experiment implementation, emergency plans, records, and documentation procedures for animal experiments involving pathogen infection. General requirements for biosafety control in case management. This document applies to biosafety control in animal experiments involving pathogen infection in animal biosafety laboratories.

2 Normative references

The contents of the following documents, through normative references within the text, constitute essential provisions of this document. Dated citations are not included. For references to documents, only the version corresponding to that date applies to this document; for undated references, the latest version (including all amendments) applies. This document.

GB 8978 Integrated Wastewater Discharge Standard

GB 14925 Laboratory Animal Environment and Facilities

GB 15562.2 Environmental Protection Graphic Symbols for Solid Waste Storage (Disposal) Sites

GB/T 15981 Evaluation Method for Sterilization Efficacy of Disinfected Instruments

GB 18466 Standard for Water Pollutant Discharge from Medical Institutions

GB 18597 Standard for Pollution Control of Hazardous Waste Storage

GB 19489 General Requirements for Laboratory Biosafety

GB/T 39759 Terminology for Laboratory Animals

GB/T 39760 Guidelines for Euthanasia of Laboratory Animals

GB/T 43051 General Requirements for Biosafety in Laboratory Animals

GB 50346 Technical Specification for Biosafety Laboratory Construction

GB 50447 Technical Specifications for the Construction of Laboratory Animal Facilities

3 Terms and Definitions

The terms and definitions defined in GB/T 39759 and the following terms and definitions apply to this document.

3.1 Scientific research, teaching, testing, and other scientific experiments conducted using pathogen-infected laboratory animals or laboratory animals.

3.2 Terminal disinfection After the experiment, a thorough disinfection is carried out to eliminate any pathogenic microorganisms that may remain in the experimental area.

3.3 laboratory waste Substances generated during the experiment that have lost their value to the original user and are discarded or require disposal for reuse.

3.4 Infectious waste Waste generated during animal experiments that contains or may contain pathogenic microorganisms and pose a risk of disease transmission to human or animal health.

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