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**CERTIFICATION AND ACCREDITATION INDUSTRY STANDARD OF THE
PEOPLE'S REPUBLIC OF CHINA**

RB/T 142-2018

**Technical specification for evaluating mobile biosafety
laboratory
(English Translation)**

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Table of Contents

Foreword	
Introduction	
1 Scope	
2 Normative references	
3 Terms and definitions	
4 Classification of mobile biosafety laboratories	
5 Evaluation of the basic performance of mobile biosafety laboratories	
6 Evaluation of environmental parameters of mobile biosafety laboratories	
7 Evaluation of mobile biosafety laboratory facilities and equipment	
8 Testing and Evaluation of Mobile Biosafety Laboratory	

Foreword

This standard was drafted in accordance with the rules given in GB/T 1.1-2009.

This standard was proposed and managed by the National Certification and Accreditation Regulatory Commission.

Drafting organizations of this standard. China National Accreditation Center for Conformity Assessment, Chinese People's Liberation Army Military Medical Research Institute, Tianjin National Biological Defense Environmental Protection Equipment Engineering Technology Research Center, China Academy of Building Research, China Disease Prevention and Control Center, China Animal Disease Prevention and Control Center.

Introduction

Mobile biosafety laboratories are usually used in emergent public health events, and there is an urgent need to carry out temporary pathogen microbiology at the scene of the incident.

Mobile experimental facility for object detection. In order to ensure the biological safety of the experimental activities after it moves to the site, it is necessary to Evaluation will be conducted after reaching the scene.

This standard is based on GB 27421-2015 "Mobile Laboratory Biosafety Requirements", and has requirements for facilities and equipment, such as high exhaust air Effective filter settings and other content are supplemented, and at the same time, different levels of mobile biosafety laboratories are proposed for annual maintenance and testing, as well as

before departure and arrival.

The safety performance inspection and evaluation method after reaching the site is in place to ensure the safe and reliable operation of the mobile biosafety laboratory, and to ensure that the laboratory Personnel and environmental safety when working in the field and places where public health emergencies occur. Mobile biosafety laboratory Other performance evaluations such as vehicles, electrical safety, etc. can be evaluated in accordance with relevant laws, regulations and technical specifications.

Technical specifications for evaluation of mobile biosafety laboratories

1 Scope

This standard specifies the classification, basic performance evaluation, environmental parameter evaluation, facility and equipment evaluation and inspection of mobile biosafety laboratories.

Test evaluation.

This standard applies to the evaluation of the biosafety performance of mobile biosafety laboratory facilities and equipment. Design and construction of such laboratories and management can also be used as a reference.

2 Normative references

The following documents are indispensable for the application of this document. For dated reference documents, only the dated version applies to this article Pieces. For undated reference documents, the latest version (including all amendments) is applicable to this document.

GB 1589 External dimensions, axle loads and mass limits of automobiles, trailers and automobile trains
GB 7258 Safety technical conditions for motor vehicle operation
GB/T 17275 General technical requirements for freight trailers
GB 19489 Laboratory Biosafety General Requirements
GB/T 23336 General technical requirements for semi-trailers
GB 27421-2015 Biosafety requirements for mobile laboratories
GB/T 29476 General technical specifications for mobile laboratory equipment
GB/T 29477 General technical specifications for experimental cabins in mobile laboratories
GB 50346 Technical Code for Biological Safety Laboratory Building
GJB2093A General test method for military shelter
GJB6109 General Specification for Military Shelter
QB/T 2358 Test Method for Heat Sealing Strength of Plastic Film Packaging Bags
RB/T 199 Technical Specification for Biosafety Evaluation of Laboratory Equipment

3 Terms and definitions

The following terms and definitions defined in GB 19489, GB 27421, and GB 50346 apply to this document.

Mobile biosafety laboratory A biosafety laboratory that can be used at different locations.

4.1 Classification by mobile mode

Mobile biosafety laboratories are divided into self-propelled laboratories and carrier laboratories according to the mobile mode, and their characteristics are as follows.

- a) Self-propelled laboratory. a laboratory with its own motorized driving function, that is, a laboratory with an integrated vehicle and experimental cabin;
- b) Carrying laboratory. a laboratory that can realize mobile functions by means of a vehicle, including a laboratory with a rigid and flexible structure.