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

WS 589-2018

**Bio-safety signs for pathogenic microorganism laboratory
(English Translation)**

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Foreword

The full technical content of this standard is mandatory.

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

This standard refers to the International Organization for Standardization ISO 7010 Graphical symbols-Safety colours and safety signs (graphic symbols -Safety color and safety mark), combined with the current national standard GB 2894-2008 "Safety Mark and its Usage Guidelines", GB/T 2893-2004 "Graphic Symbol Safety Colors and Safety Labels Part 1. Design Principles for Safety Marks in Workplaces and Public Areas" quasi.

This standard was drafted. China Center for Disease Control and Prevention, Chinese Center for Disease Control and Prevention, China Center for Disease Control and Prevention, China Medical Institute of Pathogenic Biology, Institute of Medical Laboratory Animals, Chinese Academy of Medical Sciences, China Center for Disease Control and Prevention, Prevention and Control of Infectious Diseases Institute, China Medical University.

1 Scope

This standard specifies the standard setting, operation, maintenance and management of the biosafety label of the pathogenic microorganism laboratory.

This standard applies to research, teaching, testing, diagnosis, preservation and biological systems related to pathogenic microorganisms (poisons) and samples.

A laboratory for related activities such as production.

2 Normative references

The following documents are indispensable for the application of this document. For dated references, only the dated version applies to this document.

For undated references, the latest edition (including all amendments) applies to this document.

GB 2893 (all parts) safety color GB 2894 safety signs and guidelines for their use GB 12268-2012 Dangerous Goods Name List GB/T 14691 technical drawing font GB/T 15566 (all parts) Principles and requirements for setting up public information guidance systems GB 15630 fire safety sign setting requirements

3 Terms and definitions

The following terms and definitions apply to this document.

Safety sign

An identifier used to express specific security information, consisting of graphical symbols, security colors, geometric shapes (borders), or text.

Safe color

The color that conveys the meaning of the security information, including red, blue, yellow, and green.

Contrast color

A more striking contrast color for safe colors, including black and white.

Prohibition sign prohibition sign Graphical signs prohibiting people from unsafe behavior.

Warning sign

Remind people to pay attention to the surrounding environment to avoid dangerous graphic signs.

Instruction sign

Emphasize the graphical signs that people must make certain actions or take precautions.

Prompt identification information sign A graphic mark that provides people with certain information (such as a safety facility or location).

Description sign

A sign that provides specific instructions (marked as a safety classification or protective measure, etc.), consisting of geometric borders and text.

Special mark

A symbol or marker made for a particular thing, product, or device that is labeled for easy identification.

3.10

Environmental information sign the information provided relates to graphical identifiers for larger areas. Identification type code. H.

3.11

Partial information sign the information provided relates only to the location of a location or even the graphical identity of a device or component. Identification type code. J.

3.12

Luminance factor

Under specified lighting and viewing conditions, the brightness of a given point on a surface of a non-self-illuminating body is completely reflected or under the same conditions the ratio of the brightness of a fully transmissive diffuser.

3.13

Ordinary material

A material that does not retroreflect light and does not emit light.

3.14

Retroreflective material A material whose direction of light reflection is close to the opposite direction of incidence of light.

3.15

Combined material

A material that combines the optical characteristics of a photoluminescent material with a retroreflective material.

4.1 Prohibition of identification

Forbidden signs are shown in Table 1.

Table 1 prohibition of identification

Number graphic identifier name Identification kind Setting range and location 1-1 no Entry no entering Workplaces that can cause occupational hazards at or near the mouth of the

danger zone, if possible Biohazard equipment failure, maintenance, Equipment and facilities for overhauling biohazards when setting according to the actual situation on site
1-2 no entry no thoroughfare H, J Dangerous work areas, such as laboratories, sewage Dyeing source, etc.

Children are not allowed inside no children will be Admit a field that is prone to accidents or injuries to children such as laboratory areas, various sources of pollution Area, etc.

Number graphic identifier name Identification kind Setting range and location 1-4 no pets allowed no pets Pets entering the area carry infectious diseases Bacteria, a place that is easy to cause harm to people, such as laboratory areas, various sources of pollution 1-5 no smoking no smoking Laboratory, no smoking place, truthful Laboratory area, carbon dioxide storage area and Hospital, etc.

Ban fireworks

No burning

Laboratory flammable and explosive chemicals are stored and made Use and laboratory operating area 1-7 no open flames no open flames H, J Laboratory flammable and explosive chemicals are stored and made Use and laboratory operating areas, such as fume hoods, Fume hoods, drug storage cabinets, etc.

Prohibition of carrying jewelry, metal Object or watch no metallic Accessories Sites where experimental activities are carried out, such as. experiments Entrance to the room or entrance to the room 1-9 no stacking no stocking Fire equipment storage, fire exit, and Portable eye washers and emergency sprinklers nearby Number graphic identifier name Identification kind Setting range and location 1-10 Prohibit closing no switching on when the equipment or line is overhauled, the corresponding switch is attached.

1-11

Prohibit water from extinguishing no extinguishing with water H, J Storage and transportation, use of water to extinguish fire Quality sites, such as transformer rooms, laboratory cores Heart area and precision instruments, etc.

1-12

Prohibit close

No nearing

Dangerous areas that are not allowed to be approached, such as substation Equipment, high-level biosafety laboratory Near the spare room, etc.

1-13

Prohibit promotion