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JY

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

JY/T 0067-2011

Replacing JY 67-1982

**General requirements for biological slide specimens
(English Translation)**

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Foreword

This standard was drafted in accordance with the rules given in GB/T 1.1-2009 "Guidelines for Standardization Work_Part 1. Structure and Preparation of Standards" this standard replaces JY 67-1982 "General Technical Conditions for Biological Slide Specimens". In addition to editorial changes, the main technical changes are as follows.

- Add definition of main types of slide specimens;
- Increase environmental requirements and improve packaging requirements;
- Cancel the classification of the original qualified products into first-class products and second-class products.

Please note that some elements of this standard may involve patents. The issuer of this

standard is not responsible for identifying these patents.

This standard was proposed by the National Technical Committee for Standardization of Teaching Instruments (SAC/TC125).

This standard is under the jurisdiction of the National Technical Committee for Standardization of Teaching Instruments (SAC/TC125).

Standard JY 67-1982 drafting unit. Wuhan Teaching Instrument Factory.

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This standard was drafted. Teaching Instrument Research Institute of the Ministry of Education.

1 Scope

This standard specifies the terms, requirements, test methods, inspection rules and signs, instructions, packaging, transportation and Save.

This standard applies to biological slide specimens for teaching in primary and secondary schools.

2 Normative references

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

JY 0001 General quality requirements for teaching instruments and equipment products JY 0002 Inspection rules for teaching instruments and equipment products JY 0213-1994 Teaching mechanical, thermal instrument transportation, storage environmental conditions and test methods JB/T 8230.3-1997 microscope slide JB/T 8230.4-1997 microscope cover glass

3 Terminology

This standard uses the following terms.

Prepared biological microscope slides Individual organisms, organs, tissues or cells are appropriately processed and encapsulated in microscope slides (hereinafter referred to as slides) with a capping agent and Permanently preserved specimens formed between microscope coverslips (hereinafter referred to as coverslips).

Sections

A slide specimen prepared by cutting a biological tissue into thin slices. Cross section, that is, the cutting direction is perpendicular to the long axis of the material or structure or fiber

direction; vertical section, that is, the cutting direction is parallel to the long axis of the material or structure, or fiber direction;

With or without specific requirements.

Whole mounts

Tiny biological entities or structures that do not need to be cut into thin slices and directly encapsulated slide specimens after proper processing. Squeezing or squeezing material the finished packing is called pressing; the packing made by separating materials is called separating loading.

Smear smear

Liquid materials or sticky materials are smeared on glass slides when fresh, and slide specimens made after proper processing.

Grinding Ground

For hard materials such as teeth and bones, grind on the abrasive tool into a nearly transparent sheet, and then make a glass slide specimen after proper processing.

4.1 Use environmental conditions

Temperature. -10 °C ~ 40 °C, relative humidity. not more than 90%.

4.2.1 Dimensions of slides and coverslips

4.2.1.1

The overall dimensions of the slide shall comply with the provisions in Table 1 of JB/T 8230.3-1997, Section 4.1. The basic dimensions shall be 76mm in length and 26mm in width.

The dimensions of the glass slide for a specific product shall be specified separately in the product standard.

4.2.1.2

Except for the outer dimensions of the coverslip, which should comply with the provisions in Table 1 of JB/T 8230.4-1997 Section 4.1, square coverslips should be used.

For side lengths of 16mm and 14mm, round coverslips should be 20mm and 14mm in diameter. The thickness of the coverslip should conform to JB/T Type 8230.4-1997, Table 2, Table 2, Type G.

4.2.2 Appearance of slides and coverslips

4.2.2.1

The appearance of the slide shall comply with the provisions of 4.3, 4.6, 4.7, 4.8, and 4.9 of JB/T 8230.3-1997.

4.2.2.2

The appearance of the coverslip shall comply with the provisions of JB/T 8230.4-1997 4.5, 4.6, 4.7, 4.8, 4.9, 4.10.

4.2.3 Other requirements for slides and coverslips

4.2.3.1

Other requirements of the slide shall comply with the relevant provisions of JB/T 8230.3.

4.2.3.2

Other requirements for coverslips shall comply with the relevant provisions of JB/T 8230.4.

4.3 Specimen Selection and Handling

4.3.1

The typical biological material and the correct material extraction site should be selected according to the tissue structure to be displayed by the product.

4.3.2

The material should be fresh and timely, and the tissue should not have autolysis, lesions and shrinkage.

4.3.3

General plant tissues should not be too young to keep clear cell boundaries, normal morphology, and clear staining. Have specific observations What is required is not limited.

4.3.4

If there is no specific requirement, the thickness of the section is generally based on the non-overlapping phenomenon of cells. Consecutive section specimens should be of consistent thickness Continued, there should be no shortage.

4.3.5

The sections should be free of obvious knife marks, cracks, damages, wrinkles, and the sections should be flat.

4.3.6

Loaded specimens should be complete in shape, normal in shape, obvious in characteristics, suitable in pigments, no air in the body, and trimmed neatly and smoothly at the edges.