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Laboratory Glassware - One Mark Pipettes

实验室玻璃仪器 单标线吸量管

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Laboratory Glassware - One Mark Pipettes

1 Scope

This Standard specifies the specification series, requirements, test methods, inspection rules, as well as marking, packaging, transportation and storage of one-mark pipette products used in ordinary laboratories.

This Standard is applicable to the production and application of one-mark pipettes used in ordinary laboratories.

2 Normative References

The contents of the following documents constitute indispensable clauses of this document through the normative references in the text. In terms of references with a specified date, only versions with a specified date are applicable to this document. In terms of references without a specified date, the latest version (including all the modifications) is applicable to this document.

GB/T 2828.1 Sampling Procedures for Inspection by Attributes - Part 1: Sampling Schemes Indexed by Acceptance Quality Limit (AQL) for Lot-by-lot Inspection

GB/T 6543 Single and Double Corrugated Boxes for Transport Packages

GB/T 6582 Glass - Hydrolytic Resistance of Glass Grains at 98 °C - Method of Test and Classification

GB/T 15726 Glassware - Stress Examination Methods

GB/T 28209 Methods for Chemical Analysis of Borosilicate Glasses

JJG 196 Working Glass Container

3 Terms and Definitions

The following terms and definitions are applicable to this Standard.

3.1 standard temperature

Standard temperature is the temperature used when measuring in or out of its nominal volume (capacity), which is set to 20 °C.

3.2 capacity

At 20 °C, the volume of water at 20 °C contained when reaching the scale mark, expressed in (mL).

3.3 curved liquid surface setting

Curved liquid surface setting means the lowest point of the curved liquid surface is tangent to the horizontal plane of the upper edge of the graduation line. The line of sight is on the same level as the upper edge of the graduation line.

4 Specification Series and Accuracy Grades

4.1 Product Specifications

1 mL, 2 mL, 3 mL, 5 mL, 10 mL, 15 mL, 20 mL, 25 mL, 50 mL and 100 mL.

4.2 Accuracy Grades

Grade-A and Grade-B.

5 Technical Requirements

5.1 Structure

5.1.1 Structural composition

The one-mark pipette consists of a straw, a reservoir and a liquid-flowing tube. These 3 parts are all straight-shaped and on the same axis. The structural composition of the one-mark pipette is shown in Figure 1. 1 mL and 2 mL Grade-B one-mark pipettes can be similar straight-shaped tubes or bubble-shaped tubes with a larger capacity. If they are bubble-shaped, they shall be approximately spherical and located between the pipettes and the nominal capacity line.

The products of the same variety and specification, and delivered at the same time constitute one batch.

7.2.3 Inspection implementation and inspection results

Sampling inspection shall be carried out by the manufacturer in accordance with the exit-factory inspection items in Table 7. Only batch of products that are qualified in the inspection can be allowed to exit the factory, and a certificate of conformity shall be attached when exiting the factory.

8 Marking, Packaging, Transportation and Storage

8.1 Marking

8.1.1 Product marking

The following markings shall be securely marked on each one-mark pipette:

- a) Manufacturer's trademark;
- b) Standard temperature "20 °C";
- c) Figure of nominal capacity and capacity unit "mL";
- d) Grade symbol "A" or "B";
- e) Exit symbol "Ex".

8.1.2 Packaging marking

The following markings shall be securely marked on the packaging box:

- a) There shall be pictorial markings for handling of goods "HANDLE WITH CARE" and "KEEP DRY";
- b) Product name, specifications, quantity, net weight, gross weight and volume;
- c) Manufacturer's name, registered trademark and production date;
- d) Manufacturer's address and telephone number.

8.2 Packaging

8.2.1 Inner packaging

Cartons or plastic bags shall be used, and there shall be a certificate of conformity, which shall indicate the product name, specifications and quantity. Quantities are in multiples of 10. Fillers such as paper scraps and foam plastics shall not be used.

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