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

GB 1588-2024

Replacing GB 1588-2001

Medical glass thermometer

医用玻璃体温计

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Foreword

This document is in accordance with the provisions of GB/T 1:1-2020 "Guidelines for standardization work Part 1: Structure and drafting rules for standardization documents" Drafting: This document replaces GB 1588-2001 "Glass Thermometers": Compared with GB 1588-2001, except for structural adjustments and editorial changes, In addition, the main technical changes are as follows:

- Changed the scope of application of the standard (see Chapter 1, Chapter 1 of the:2001 edition);
- Deleted the contents of anus (veterinary) and neonatal rod type, and adjusted the requirements for measurement sites (see 4:1:1, 3:1 of the:2001 edition);
- Changed the requirements for basic dimensions (see 4:1:2, 4:1 of the:2001 edition);
- Changed the stress requirements (see 4:2:8, 4:10 of the:2001 edition);
- Unified the requirements for the width of the glaze band of glass tubes (see 4:2:9, 4:2:4 of the:2001 edition);
- Changed the requirements for scale plates (see 4:4, 4:7 of the:2001 edition);
- Changed the requirements for the width of the scale lines of the rod-type glass thermometer (see 4:6:2, 4:9:2 of the:2001 edition);
- The test method for bubbles has been changed (see 5:3, 5:5:2 of the:2001 edition);
- Changed the test method for the difficulty of temperature-sensitive liquid column to be thrown off (see 5:4:4, 5:14 of the:2001 edition);
- Deleted the content of batch inspection (see 6:2 of the:2001 edition);
- Changed the sampling plan for periodic inspection of indications (see 6:3, 6:3:3 of

the:2001 edition);

--- Deleted the contents of packaging, transportation and storage (see Chapter 8 of the:2001 edition);

--- Deleted the content of quality assurance (see Chapter 9 of the:2001 edition): Please note that some of the contents of this document may involve patents: The issuing organization of this document does not assume the responsibility for identifying patents: This document is proposed and coordinated by the State Food and Drug Administration: The previous versions of this document and the documents it replaces are as follows:

1 Scope

GB 1588 is the product standard for the medical glass thermometer - the clinical thermometer with a constriction that holds the reading until it is shaken down. It sets the requirements for the measuring range and scale, the maximum permissible error, the response time, the constriction's behaviour, the glass and the filling, and the mechanical robustness, together with the test methods, the periodic inspection and the marking and instructions. The long lead time to 1 May 2026 reflects the transition away from mercury filling under the Minamata Convention. Issued on 29 April 2024, replacing GB 1588-2001. This page is published from the official record of the standard held by the Chinese standards administration: the identification, the dates, the classification and the edition it replaces are taken from there. The clause text, the tables and the numeric limits are not reproduced on this page - they are in the document itself, which is delivered in full in English translation.

This document specifies the requirements, inspection rules, marking, instructions for use of medical glass thermometers and describes the corresponding test methods: This document is applicable to medical glass thermometers (hereinafter referred to as "glass thermometers") for measuring human body temperature, with a temperature measurement point structure and a temperature sensing medium of liquid: It is called a glass thermometer):

2 Normative references

The contents of the following documents constitute the essential clauses of this document through normative references in this document: For referenced documents without a date, only the version corresponding to that date applies to this document; for referenced documents without a date, the latest version (including all amendments) applies to This document:

GB/T 2829 Periodic inspection sampling procedures and tables (applicable to the inspection of process stability)

3 Terms and definitions

The following terms and definitions apply to this document: 3:1 scaleline Lines engraved on a glass rod or scale to indicate temperature values:

Note: Also called scale line: 3:

2 Scale plate Internal standard glass thermometer is a straight, colored (such as milky white) sheet with scale lines, scale values and other symbols printed inside:

Note: Also called scale plate: 3:

3 The phenomenon that the temperature-sensing liquid column of a glass thermometer automatically retreats toward the temperature-sensing bulb above the retention point structure:

Note: It indicates the stability of the indication of glass thermometer within a certain period of time: 3:

4 The phenomenon that the temperature-sensing liquid column of a glass thermometer is difficult to retract under a certain external force: 3:

5 Interrupt liquid column The liquid column of the glass thermometer is disconnected above the retention point structure:

4 Requirements

1 The type and measuring range of glass thermometers shall comply with the requirements of Table 1: