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Classification and codes for reagent in biological research

科研用生物试剂分类及代码

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Foreword

This document complies with the provisions of GB/T 1.1-2020 "Standardization Work Guidelines Part

1.Structure and Drafting Rules of Standardization Documents". Drafting. Please note that some content in this document may involve patents. The issuing organization of this document assumes no responsibility for identifying patents. This document was proposed by the Ministry of Science and Technology of the People's Republic of China. This document is under the jurisdiction of the National Technical Committee on Standardization of Science and Technology Platforms (SAC/TC486) and the National Technical Committee on Standardization of Biochemical Testing. (SAC/TC387) Sub-administration. This document was drafted by: CASMA (Beijing) Technology Co., Ltd., China National Institute of Standardization, and National Science and Technology Infrastructure Platform Center. University of Chinese Academy of Sciences, Institute of Biophysics, Chinese Academy of Sciences, Northwest Plateau Institute of Biology, Chinese Academy of Sciences, Institute of Microbiology, Chinese Academy of Sciences Research Institute, Beijing Center for Disease Control and Prevention, Beijing TransGen Biotechnology Co., Ltd., Beijing Kangrun Chengye Biotechnology Co., Ltd. Beijing Yiqiao Shenzhou Technology Co., Ltd., Beijing

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Biological reagents for scientific research are an important component of scientific and technological resources, widely serving scientific research and national economic development, and playing a crucial role in scientific and technological innovation. It occupies an important position. The formulation of this document resolves the issues of the lack of unified classification and coding for biological reagents used in scientific research, providing a basis for the development of the industry. Supporting and standardizing the research, development, production, distribution, application, and evaluation of biological reagents for scientific research is of great significance for establishing and improving the biological reagent standard system. It has meaning. Classification and Codes of Biological Reagents for Scientific Research

1 Scope

GB/T 46203-2025 is the Chinese national standard covering a classification for laboratory biological reagents - the antibodies, enzymes, media, kits and cell lines, arranged into categories with codes, so that procurement, inventory and shared-facility catalogues speak the same language. First edition, in force from 1 February 2026. Issued on 5 October 2025, it has been in force since 1 February 2026.

This document defines the terminology and definitions of biological reagents used in scientific research, establishes classification principles, specifies the classification basis and classification code table, and describes... The encoding method is described. This document applies to the information classification, sharing, and exchange management of biological reagents used in scientific research. The industry management departments for biological reagents used in scientific research should refer to this document. use.

2 Normative references

The contents of the following documents, through normative references within the text, constitute essential provisions of this document. Dated citations are not included. For references to documents, only the version corresponding to that date applies to this document; for undated references, the latest version (including all amendments) applies. This document.

GB/T 7027 Basic Principles and Methods of Information Classification and Coding

3 Terms and Definitions

The following terms and definitions apply to this document.

3.1 In life science and biotechnology research, biomaterials or compounds used for detection, analysis, synthesis, and functional studies.

3.2 biomaterial Bioactive substances obtained from or artificially prepared from organisms such as humans, animals, plants, microorganisms or multicellular organisms.

3.3 Substances used in cell preparation, culture, and functional analysis and other related research.

3.4 Substances used in research related to nucleic acid extraction, genetic engineering, and functional analysis.

3.5 Substances used in research related to protein extraction, purification, quantitative detection, and functional analysis.

4 Classification Principles

4.1 Scientific Principle Based on the essential properties of biological reagents and their interrelationships, different subordinate relationships and parallel orders are distinguished to form a complete system. A comprehensive and scientific classification system for biological reagents.