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

GB/T 44583-2024

**Important products traceability - Coding specification for
traceability code**

重要产品追溯 追溯码编码规范

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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 is required. 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 jointly managed by the China National Institute of Standardization and the Ministry of Commerce of the People's Republic of China. This document was drafted by: China Article Numbering Center, Beijing Jiaotong University, China National Institute of Standardization, and Circulation Industry Promotion Center of the Ministry of Commerce. Center, Shenzhen Institute of Standards and Technology, China International Electronic Commerce Center, National Organization Unified Social Credit Code Data Service Center, Shanghai CITIC Information Development Co., Ltd., China Electronics Technology Standardization Institute, Beijing Netvision Technology Development Co., Ltd., Xiamen Municipal Standardization Research Institute, Beijing Institute of Standardization, Guangxi Zhuang Autonomous Region Standards and Technology Research Institute, Anhui Provincial Quality and Standardization Research Institute, Shandong Provincial Institute of Standardization. The main drafters of this document are. Li Sucai, Sun Xiaoyun, Zhang Duo, Liu Peng, Du Jingrong, Xu Lifeng, Zheng Xiaojun, Gong Haiyan, Gao Zili, Ren Xiaotao, Geng Li, Zhou Gang, Song Jiwei, Zhang Yong, Zhang Qiuxia, Gao Lin, Dong Xiaowen, Xia Wenyan, Kong Weijia, He Rong, Yuan Jinbo, Wang Chunguang, Luo Xiang. Important product traceability code coding specifications

1 Scope

GB/T 44583-2024 specifies the coding of traceability codes in the Chinese important products traceability system, the national programme covering food, pharmaceuticals, agricultural inputs, hazardous chemicals and other categories where a recall has to reach individual units. Everything in such a system rests on the code: it must be unique across the whole country and across all the enterprises participating, it must be allocable without a central bottleneck, and it must be readable by the parties who did not issue it. The standard sets the principles and the structure of the traceability code, the segments identifying the responsible party, the product and the unit, the relationship between the traceability code and the existing product and batch identifiers, the rules for allocating and managing codes, the carrier and its symbology, the verification of a code, and the registration and interoperability requirements. It took effect on 29 September 2024.

This document specifies the overall requirements, structure and identification carrier requirements of the traceability code in the product traceability system, and provides Example of barcode product traceability code encoding. This document applies to important products such as edible agricultural products, food, medicine, agricultural production materials, special equipment, dangerous goods, rare earth products, etc. Preparation of traceability codes in the traceability system.

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. in this document.

GB/T 7027-2002 Basic principles and methods of information classification and coding

GB 12904 Commodity barcodes Retail commodity coding and barcode representation

GB/T 15425 Product Barcode 128 Barcode

GB/T 16830 Commodity barcodes, storage, transportation and packaging, commodity coding and barcode representation

GB/T 18284 Quick Response Matrix Code GB/T 18347 128 barcode

GB/T 21049 Chinese Xin Code

GB/T 34062 Technical requirements for anti-counterfeiting traceability coding

GB/T 36364 Information technology - General specification for radio frequency identification

2.45 GHz tags

GB/T 36365 Information technology - General specification for radio frequency identification 800/900 MHz passive tags

GB/T 38155 Important product traceability terminology

GB/T 41208 Data Matrix Code

3 Terms and definitions

The terms and definitions defined in GB/T 38155 apply to this document.

4 General requirements

4.1 The traceability code should be selected based on the traceability accuracy, product characteristics and application status, and an appropriate coding structure should be selected.

4.2 The traceability code should be assigned when the traceability unit is generated and accompany the traceability unit throughout its life cycle.

4.3 The traceability code should meet the requirements of uniqueness, rationality, scalability, simplicity, applicability and standardization. It complies with the requirements of Chapter 7 of GB/T 7027-2002.

5 Traceability Code Structure

5.1 Basic composition of traceability code The traceability code should include the traceability subject information and the traceability unit information, and can be composed of the subject code, product code, batch code, single product code, etc.