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**Imported cold-chain food traceability - Specification for data
interchange application of traceability system**

进口冷链食品追溯 追溯系统数据交换应用规范

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Table of Contents

Foreword	3
1 Scope	4
2 Normative references	4
3 Terms and definitions	4
4 General principles of data interchange	5
5 Data model	5
5.1 Involved processes	5
5.2 Domestic customs clearance traceability data model	6
5.3 Domestic production and processing traceability data model	7
5.4 Logistics traceability data model	8
5.5 Traceability data model for distribution and sales	9
5.6 Data element requirements	9
6 Requirements for data interchange interfaces	9
7 Testing and verification methods	10
Annex A (informative) Data interchange interface methods	11

Foreword

This document was issued on 23 August 2024 by the State Administration for Market Regulation; Standardization Administration of the PRC and takes effect on 1 March 2025.

It is a GB/T standard: recommended rather than compulsory, but it is the text a Chinese reviewer applies when assessing a submission.

This document was drafted in accordance with the rules given in GB/T 1.1-2020

"Directives for standardization - Part 1.Rules for the structure and drafting of standardizing documents".

Attention is drawn to the possibility that some of the elements of this document may be the subject of patent rights. The issuing authority shall not be held responsible for identifying any or all such patent rights.

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Imported cold-chain food traceability -- Specification for
data interchange application of traceability system

1 Scope

GB/T 44368-2024 specifies how traceability data is exchanged for imported cold-chain food in China. The Chinese cold-chain traceability system was built at speed and is now permanent: every consignment of imported chilled and frozen food carries an identifier that must follow it from the customs clearance point through cold store, distribution and sale, with each handover recorded, and the system only works if the platforms operated by customs, by provinces and by enterprises can exchange those records without loss. The standard sets the general principles of data interchange and then the data model: the processes involved, the domestic customs clearance traceability data, the storage, transport and distribution data, the sales data, and the identifiers, code structures and time and place attributes that tie them together, followed by the interchange method, the message formats and the requirements on security and on data quality. For a foreign exporter, an importer or a platform operator, this is the specification that says what data the Chinese system will demand and in what form. It takes effect on 1 March 2025.

This document specifies the general principles, data model, data interchange interface requirements, and testing and verification methods for data interchange in the imported cold-chain food traceability system.

This document applies to data interchange and application in the traceability system for imported cold-chain food.

2 Normative references

The following referenced documents are indispensable for the application of this document. For dated references, only the edition cited applies. For undated references, the latest edition of the referenced document (including any amendments) applies.

GB/T 18491.3-2010, Information technology -- Software measurement -- Functional size measurement -- Part 3.Verification of functional size measurement methods

GB/T 34990-2017, Information security technology -- Technical requirements and testing evaluation approaches of information system security management platform products

GB/T 35273, Information security technology -- Personal information security

specification

GB/T 43265-2023, Imported cold-chain food traceability -- Data elements of traceability system

GB/T 43268-2023, Imported cold-chain food traceability -- General rules for traceability system

3 Terms and definitions

For the purposes of this document, the terms and definitions defined in GB/T 43268-2023 as well as the followings apply.

3.1 data interchange

The process by which various entities exchange data with each other.

[Source. GB/T 36107-2018, 3.1]

4 General principles of data interchange

4.1 All information systems shall follow a unified data model when interchanging data.

4.2 The data interchanged must be true, accurate, timely and complete.

4.3 Determine the content and format of data interchange in accordance with the standard format.

4.4 When interchanging data, it is advisable to consider the security of access authentication, data encryption, data transmission, message status receipts, and log recording.

5 Data model

5.1 Involved processes

Data interchange between imported cold-chain food traceability systems mainly includes data from four aspects. domestic customs clearance, domestic production and processing, logistics, and distribution and sales.

5.5 Traceability data model for distribution and sales

The data model for traceability in the distribution and sales process is shown in Figure

4.