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

GB/T 43195-2023

**Imported cold-chain food traceability - Guidelines for
developing traceability system**

进口冷链食品追溯 追溯系统开发指南

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Foreword

This document was issued on 7 September 2023 by the State Administration for Market Regulation; Standardization Administration of the PRC and takes effect on 1 April 2024.

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

1 Scope

GB/T 43195-2023 gives the guidelines for developing an imported cold-chain food traceability system. The other parts of the series say what must be traced and in what form; this one is addressed to the people building the platform, and its subject is the two things that decide whether such a system works in practice - how the data actually gets uploaded by thousands of importers, cold stores and distributors of very different technical capability, and how a national database of commercially sensitive trade data is protected. The standard sets the general principles of the traceability system, its composition, the data upload methods, the system security and the operation and maintenance. It took effect on 1 April 2024.

This Document provides general principles, system structure, system data upload method, system security, and maintenance recommendations for an imported cold chain food traceability system.

This Document applies to the construction of an imported cold chain food traceability system.

2 Normative References

The provisions in following documents become the essential provisions of this Document through reference in this Document. For the dated documents, only the versions with the dates

indicated are applicable to this Document; for the undated documents, only the latest version

(including all the amendments) is applicable to this Document.

GB/T 20271 Information security technology - Common security techniques requirement for information system

GB/T 22239 Information security technology - Baseline for classified protection of cybersecurity

GB/T 28827.1 Information technology service - Operations and maintenance - Part 1. General requirements

GB/T 41479 Information security technology - Network data processing security requirements

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

3 Terms and Definitions

For the purposes of this Document, the terms and definitions given in GB/T 43268 and the following apply.

3.1 Cold-chain

Based on the characteristics of goods, logistics terminology and organizational systems refer to

the temperature environment required to maintain the quality of goods throughout the process

from production to consumption.

[SOURCE. GB/T 18354-2021, 5.11]

3.2 Cold store

Warehouse buildings that utilize artificial refrigeration for cooling and also possess thermal insulation functions.

NOTE. It includes warehouse, refrigeration room, and power distribution room, etc.

[SOURCE. GB/T 30134-2013, 3.1, modified]

3.3 Traceability system

Based on traceability codes, document records, related hardware and software equipment, and

communication networks, this system integrates modern information management and enables

the acquisition of relevant data during the product traceability process.

[SOURCE. GB/T 38155-2019, 2.6]

3.4 Traceable unit

The individual products, products from the same batch, or products of the same category that

requires to record, identify and trace the relevant information of their history, application or location.

[SOURCE. GB/T 38155-2019, 2.4]

3.5 Traceability participant

Organizations or individuals that engaged in domestic customs clearance, production and processing, packaging, warehousing, transportation, distribution, sales, and consumption (use)

of products within the supply chain.

[SOURCE. GB/T 38155-2019, 2.5, modified]

3.6 Traceability code

A unique code used to identify a traceable unit in a traceability system.

[SOURCE. GB/T 38155-2019, 2.10]

4 General Principles of the Traceability System

4.1 The traceability system should be uniformly planned, scientifically managed, and have clearly defined functions to achieve interconnectivity among cold chain traceability systems.

4.2 The traceability system should be constructed using a standardized approach to achieve a

unified data format.

4.3 The traceability system should cover all categories of imported cold chain food actually circulating in the province to achieve the integrity of collected data.

4.4 The traceability system should ensure that uploaded data is consistent with actual documents to achieve the usability and accuracy of traceability data.

4.5 The traceability system should establish a unified security, operation and maintenance mechanism to achieve the security and reliability of the traceability system.

5 Traceability System Composition

5.1 Overview

The traceability system of the imported cold chain food includes a national platform, provincial

platforms, and enterprise systems, as shown in Figure 1.

The national platform connects to each provincial platform, aggregating and analyzing cold chain traceability data from each provincial platform.

The provincial platforms manage the operating entities and cold store within the province, upload cold chain traceability data to the national platform, and connect to various enterprise

traceability systems.

The enterprise system includes the traceability participant enterprise system in each link of the

imported cold chain food circulation, and uploads cold chain traceability data to the provincial

platform.

d) Data statistical analysis function. Provides statistical analysis of data such as enterprise entities, inbound/outbound and inventory data, and cross-provincial data confirmation, etc.

5.4 Enterprise systems

The enterprise systems should include traceability participant enterprise systems in the