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

GB/T 41734.1-2022

**Radiofrequency identification of animals - Part 1: Evaluation of
conformance of RFID transponders with GB/T 20563 and GB/T
22334(including granting and use of a manufacturer code)**

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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 is Part 1 of GB/T 41734 "Radio Frequency Identification of Animals". GB/T 41734 has issued the following parts.

--- Part 1. Consistency assessment of radio frequency identification labels and GB/T 20563 and GB/T 22334 (including the issue of manufacturer codes

put and use);

--- Part 2. Consistency assessment of RFID readers and GB/T 20563 and GB/T 22334;

--- Part 3. Performance evaluation of radio frequency identification tags in accordance with GB/T 20563 and GB/T 22334.

This document is modified to adopt ISO 24631-1:2017 "Radio Frequency Identification of Animals Part 1. Radio Frequency Identification Tags and ISO 11784 and

Conformity assessment to ISO 11785 (including issuance and use of manufacturer's codes).

Compared with ISO 24631-1:2017, this document has made the following structural adjustments.

--- Chapter 4 corresponds to Chapter 5 of ISO 24631-1:2017;

--- Chapter 5 corresponds to Chapter 4 of ISO 24631-1:2017;

--- Appendix A corresponds to Appendix B of ISO 24631-1:2017;

--- Appendix B corresponds to Appendix C of ISO 24631-1:2017;

---Appendix C corresponds to Appendix E of ISO 24631-1.2017;

---Appendix D corresponds to Appendix A of ISO 24631-1.2017;

---Appendix E corresponds to Appendix D of ISO 24631-1.2017.

The technical differences between this document and ISO 24631-1.2017 and their reasons are as follows.

--- Changed the scope of application of the standard to adapt to the development of the industry in my country (see Chapter 1);

--- Replaced ISO 11784.1996 with the normative reference GB/T 20563-2006 (see Chapter 5, 6.12, Appendix A,

Appendix B), the degree of consistency between the two documents is modified to adapt to the technical conditions of our country and increase operability;

--- Replaced ISO 11785.1996 with the normative reference GB/T 22334-2008 (see Chapter 4, Chapter 5, 6.12, 7.2, appendix

Record A, Appendix B), the degree of consistency between the two documents is modified to adapt to the technical conditions of our country and increase operability.

The following editorial changes have been made to this document.

--- In order to coordinate with existing standards, change the name of the standard to "Radio Frequency Identification of Animals Part 1. Radio Frequency Identification Labels and GB/T 20563

Conformity assessment with GB/T 22334 (including the issuance and use of manufacturer codes)";

--- Deleted the ISO and IEC standardized terminology database address (see Chapter 3);

--- Replaced ISO 3166-1 with the informative referenced GB/T 2659 (see 3.3, Chapter 5);

--- Changed the term "manufacturer code" and added a note (see 3.7);

--- Deleted the terms "injectable RFID tag", "electronic ear tag RFID tag", "electronic rumen pill RFID tag" and "mark

Sign the appendix "leg ring radio frequency identification label", and use it as the note of the term radio frequency identification label to meet the requirements of the national standard

(see 3.18);

--- Deleted the term "RA registered manufacturer", and defined it as a note in 6.1 (see 6.1) to meet the requirements for writing Chinese standards;

--- Deleted the term "administrative department", and defined it as a note to F.2 (see F.2) to meet the requirements for writing standards in my country;

--- The term "manufacturer shared code" is deleted, and its definition is used as a note to Table E.1 (see Table E.1) to meet the requirements of Chinese standards

Require;

---Deleted the abbreviations MFC and RA to meet the requirements for writing Chinese standards;

--- Replaced ISO /IEC 17025 with the informative referenced GB/T 27025 (see 6.3);

--- Changed the expression of the note in Appendix B (Normative) Table B.1 (see Table A.1);

--- Changed the expression of the note in Appendix D (Normative) Table D.1 (see Table E.1).

Please note that some contents of this document may refer to patents. The issuing agency of this document assumes no responsibility for identifying patents.

Introduction

GB/T 41734 mainly involves the consistency of radio frequency identification tags and radio frequency identification readers. Currently, radio frequency identification tags used for animal identification

The main type of tag is injection type RFID tag, mainly including electronic ear tag RFID tag, electronic rumen pill RFID tag, leg ring

RFID tags. GB/T 20563 specifies the code structure for animal radio frequency identification, and GB/T 22334 specifies the technical code for animal radio frequency identification.

Technical guidelines, GB/T 41734 mainly solves the problems of radio frequency identification tags, radio frequency identification readers and GB/T 20563 and GB/T 22334

Consistency assessment, performance assessment and other issues.

GB/T 41734 is proposed to consist of seven parts.

--- Part 1.Consistency assessment of radio frequency identification labels and GB/T 20563 and GB/T 22334 (including the issue of manufacturer codes

put and use). The purpose is to give the consistency assessment of radio frequency identification tags and GB/T 20563 and GB/T 22334

method.

--- Part 2.Consistency assessment of RFID readers and GB/T 20563 and GB/T 22334.The purpose is to give the shot

Consistency assessment method for frequency identification readers and GB/T 20563 and GB/T 22334.

--- Part 3.Performance evaluation of radio frequency identification tags in accordance with GB/T 20563 and GB/T 22334.The purpose is to give

Performance evaluation methods for GB/T 20563 and GB/T 22334 radio frequency identification tags.

--- Part 4.Performance evaluation of radio frequency identification readers in accordance with GB/T 20563 and GB/T 22334.The purpose is to give

Compatible with GB/T 20563 and GB/T 22334 RFID reader performance evaluation method.

--- Part 5.Test procedures for the ability of radio frequency identification readers to read GB/T 20563 and GB/T 22334 radio frequency identification tags.

The purpose is to give the ability test of the radio frequency identification reader to read the radio frequency identification tags of GB/T 20563 and GB/T 22334 program.

--- Part 6.Animal identification information format (visual display/data transmission). The purpose is to regulate the display/transmission of animal identification information input data format.

--- Part 7.Synchronization between GB/T 22334 identification systems. The purpose is to give synchronization with the GB/T 22334 identification system method.

Radio Frequency Identification of Animals Part 1.RFID Tags and Consistency Assessment of GB/T 20563 and GB/T 22334 (including the issuance and use of manufacturer codes)

1 Scope

This document describes the consistency assessment method for RFID tags in animal identification with GB/T 20563 and GB/T 22334.This article

The document stipulates the conditions for the issuance and use of RFID tag manufacturer codes and the rights and obligations of all parties involved in the code issuance.

The test procedures specified in this document apply to RFID tags used in animal farming.