

ICS 65.020.30

CCS B43



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

GB/T 45207-2025

**Technical specification for in vivo conservation of chicken
genetic resources**

鸡遗传资源活体保护技术规范

Issued on: January 24, 2025

Implemented on: August 1, 2025

**Issued by: State Administration for Market Regulation;
Standardization Administration of the PRC**

Table of Contents

- 1 Scope
- 2 Normative references
- 3 Terms and definitions
- 9 Poultry

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. 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 was proposed by the Ministry of Agriculture and Rural Affairs of the People's Republic of China. This document is under the jurisdiction of the National Technical Committee on Animal Husbandry Standardization (SAC/TC274). This document was drafted by: Beijing Animal Husbandry and Veterinary Research Institute of Chinese Academy of Agricultural Sciences, Henan Agricultural University, Jiangsu Poultry Science Research Institute, National Animal Husbandry Station, Beijing Animal Husbandry Station, Guangxi Shenhua Breeding Group Co., Ltd., and Fujian Shengze Biotechnology Development Co., Ltd. The main drafters of this document are: Chen Jilan, Sun Yanyan, Kang Xiangtao, Wang Kehua, Han Wei, Yu Fuqing, Li Yunlei, Zhao Xiaoli, Li Zhuanjian, Yuan Jingwei, Yang Yuze, Qu Liang, Li Donghua, Yang Fujian, and Xiao Fan. Technical Specifications for the In vivo Conservation of Chicken Genetic Resources

1 Scope

GB/T 45207-2025 is the Chinese technical specification for conserving chicken genetic resources in vivo. China holds more indigenous chicken breeds than any other country and is losing them to the commercial hybrids, and a live conservation flock is the only way to keep a breed whose value lies in traits nobody has yet characterised. Keeping one is genetically demanding: a small closed population inbreeds and drifts unless the mating is managed deliberately. The standard sets the requirements on the conservation farm and its isolation and biosecurity, the constitution of the conservation flock and its minimum effective population size, the family structure and the mating system used to hold inbreeding to a defined rate per generation, the selection or deliberate non-selection applied, the generation interval and the replacement, the identification and pedigree recording, the

health management and the emergency arrangements, and the monitoring and evaluation of the genetic status of the flock. It takes effect on 1 August 2025.

This document stipulates the basic requirements for seed farms and gene banks for the live conservation of chicken genetic resources, the establishment, breeding and conservation methods of seed populations. It also describes the requirements for supplementary exchange of genetic resources and archival record keeping and management, and describes the methods for monitoring and evaluating the protection effects. This document is applicable to breeding farms and gene banks for the in vivo conservation of chicken genetic resources.

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 to This document.

GB/T 27534.9 Technical Specifications for Investigation of Livestock and Poultry Genetic Resources Part

3 Terms and definitions

The following terms and definitions apply to this document.

3.1 The seed conservation group establishes a family, uses the family to retain seeds in equal quantities, and conducts successive breeding according to the incomplete random mating or rotation mode. method.

3.2 The seed conservation population does not establish pedigrees, but adopts a seed conservation method of random seed retention and successive breeding according to a random mating pattern.

3.3 In each generation of successive breeding, all roosters in each family select the same number of offspring roosters, and all hens select the same number of offspring roosters. Number of offspring hens.

Note. A rooster, several hens and their offspring constitute a family.

9 Poultry

GB/T 36195 Technical specification for harmless treatment of livestock and poultry manure

GB/T 36873 Procedure for the detection of avian leukosis in stock chickens

GB/T 40454 Good Production Practice for Poultry Hatching

GB/T 43173 Procedure for the purification of Salmonella pullorum in breeder farms HJ/T 81 Technical Specification for Pollution Prevention and Control in Livestock and Poultry Breeding

NY/T 682 Technical Specifications for the Design of Livestock and Poultry Farms

NY/T 1167 Environmental Quality and Hygiene Control Specifications for Livestock and Poultry Farms

NY/T 1673 Technical Specification for Detection of Genetic Diversity of Microsatellite DNA in Livestock and Poultry

NY/T 1898 Technical specification for detection of genetic diversity of mitochondrial DNA in livestock and poultry

NY/T 3450 Technical Specifications for Livestock Genetic Resources Conservation in Seed Farms Part