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

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Replacing GB/T 3543.2-1995

Rules for agricultural seed testing - Part 2: Sampling

农作物种子检验规程 第2部分：扦样

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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 2 of GB/T 3543 "Inspection Procedure for Crop Seeds". GB/T 3543 has been published in the following parts.

- Part 1: General;
- Part 2: Sampling;
- Part 3: Seeding quality and purity analysis;
- Part 4: Seeding quality germination test;
- Part 5: Variety quality and purity identification;
- Part 6: Determination of moisture content of sowing mass;
- Other items inspection;
- Part 8: Determination of sowing quality and thousand-grain weight;
- Part 9: Determination of sowing quality and viability;
- Part 10. Determination of seeding quality and vitality;
- Part 11. Variety quality and authenticity identification;
- Part 12. Determination of variety quality of genetically modified seeds.

This document replaces GB/T 3543.2-1995 "Sampling of Crop Seed Inspection Procedures".

In addition to structural adjustments and editorial changes, the main technical changes are

as follows.

- Changed the terms and definitions related to seed batch, container, sample and coated seed (see Chapter 3, Chapter 3 of the 1995 edition);
- Changed the requirements for instruments and equipment (see Chapter 5, Chapter 4 of the 1995 edition);
- Changed the technical requirements for seed batch sampling (see Chapter 6, Chapter 5 of the 1995 edition);
- Added the sampling content of coated seeds (see 7.2, 9.1.1);
- Changed the sample collection procedure requirements (see Chapter 7, Chapter 6 of the 1995 edition) and sample preservation requirements (see Chapter 8, 1995 edition) Chapter 7 of the 2001 edition);
- Added additional requirements for issuing seed batch inspection reports (see Chapter 9)
- Changed the applicable crop species and revised the corresponding plant Latin names (see Appendix A, Table 1 of the 1995 edition);
- Changed the content of heterogeneity test for multi-container seed batches and added R value test content (see Appendix B, Appendix A of the 1995 edition);
- Added the sample form (see Appendix C).

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 Standardization of Crop Seeds (SAC/TC37).

This document was drafted by: National Agricultural Technology Extension Service Center, Shanxi Seed Industry Development Center, Beijing Seed Management Station, Inner Mongolia Autonomous Region Agricultural and Animal Husbandry Technology Extension Center of the Administrative Region, Shandong Provincial Seed Management Station, Shandong Agricultural University, Jilin Provincial Seed Management Station, Zhejiang University, Henan Provincial Seed Industry Development Center, Hunan Provincial Seed Quality Inspection Center, and Xinjiang Uygur Autonomous Region Seed Industry Development Center.

The main drafters of this document are: Jin Shiqiao, Ren Xuezhen, Meng Quanye, Wu Mingsheng, Liang Dongchao, Hu Xin, Zhang Chunqing, Gao Yuqian, Hu Jin, Feng Zhu, Ma Wenyu, Pang Shihui, Xu Lixin, Sun Ying, Kurban Siyiti, Zhu Wenwen, Jin Fang.

The previous versions of this document and the documents it replaces are as follows.

- First issued in 1983 as GB 3543-1983;
- First revised in 1995 to GB/T 3543.2-1995;
- This is the second revision.

Introduction

Seed quality has many verifiable cultivation values, forming the currently recognized sowing quality, variety quality, and health quality.

Among them, sowing quality mainly reflects the impact of seed appearance quality on seed sowing, and is divided into physical Quality and physiological quality. The most commonly used physical quality is cleanliness, dryness, fullness, uniformity and other characteristics, such as water Physiological quality mainly reflects the vitality of seeds, especially under suitable environmental control conditions.

The structural function and developmental capacity of seedlings under most conditions, that is, the ability to normally germinate and grow into plants under most conditions. The main indicators of physiological quality are germination Seed variety quality (varietal quality) is also called genetic quality (genetic quality), which mainly reflects The genetic background characteristics and genetic background consistency characteristics of crop seeds. At present, the indicators for measuring seed variety quality include variety authenticity The health quality mainly reflects the health status of seeds, whether there are any Pathogens, such as fungi, bacteria and viruses, and animal pests, including nematodes and insects, may also be involved in physiological conditions, such as trace element deficiencies.

GB/T 3543 "Inspection Procedures for Crop Seeds" is the basic standard for seed inspection methods, which consists of general principles, sampling, sowing quality, variety quality and It is composed of health quality and other parts, aiming to provide inspection basis for the quality requirements of the above three types of seeds, and is planned to be divided into the following 12 parts.

- Part 1: General. The purpose is to establish the general and overall requirements for each part of the inspection procedures for crop seeds and to govern the inspection procedures. Each part of the program.
- Part 2: Sampling. The purpose is to clarify the methods of sampling from seed batches, sub-sampling for testing and preservation of samples. program.
- Part 3: Seeding quality purity analysis. The purpose is to clarify the method for determining the net seed content in crop seed samples program.
- Part 4: Seeding quality germination test. The purpose is to clarify the test method and procedures for the germination of crop seed samples.