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

GB/T 2930.4-2017

Replacing GB/T 2930.4-2001

**Rules of seed testing for forage, turfgrass and other
herbaceous plant -- The germination test**

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Administration of the People's Republic of China**

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2001 edition of the cover);

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Foreword

GB/T 2930 "grass seed inspection procedures" is divided into 11 parts.

- GB/T 2930.1 Grass seed testing procedures sample;
- GB/T 2930.2 Grass seed testing procedures Clarity analysis;
- GB/T 2930.3 grass seeds test procedures Determination of other plant seeds;
- GB/T 2930.4 grass seed testing procedures sprout test;
- GB/T 2930.5 grass seed testing procedures biochemical (tetrazolium) determination of viability;
- GB/T 2930.6 grass seed testing procedures health determination;
- GB/T 2930.7 Grass seed testing procedures Species and species determination;
- GB/T 2930.8 grass seed testing procedures moisture determination;
- GB/T 2930.9 grass seed testing procedures weight determination;
- GB/T 2930.10 grass seeds inspection procedures Determination of coated seeds;
- GB/T 2930.11 grass seed inspection procedures inspection report.

This section GB/T 2930 Part 4.

This section drafted in accordance with GB/T 1.1-2009 given rules.

This Part replaces GB/T 2930.4-2001 "forage seed testing procedures sprout test." This section GB/T 2930.4-2001

In addition, editorial changes in addition to the main technical changes are as follows.

- The standard name from the "grass seed testing procedures germination test" renamed the "grass seed testing procedures germination test" (see the cover,

2001 edition of the cover);

--- In the foreword, the drafting rules (see the preamble) on which the standard compilation is based have been added; statements of the nature of the appendix have been deleted (see.2001 edition

The foreword);

--- Removed "ISTA Preface" (see the.2001 edition of the ISTA Preface);

--- In the range, an increase of "ecological grass, ornamental plants and medicinal plants" (see Chapter 1);

--- In "normative references", an increase of "NY/T 1238" grasses and turf grasses seedlings assessment procedures "" (see Chapter 2);

--- Removed "test purpose" (2001 version of Chapter 3);

--- In the "terms and definitions", an increase of "germination bed" (see 3.12); revised "seedling main structure" "50% rule" "normal young

Seedlings "and" dead embryos "(see 3.3, 3.4, 3.5, 3.7 and 3.1.1,.2001 edition 4.3, A4.17, 4.4 and 4.6

And 4.7.3); deleted "intact seedlings" "seedlings with minor defects" "secondary infected seedlings" "empty seeds" "seedless seeds"

And "insect pest seeds" (2001 version 4.4.1, 4.4.2, 4.4.3, 4.7.4, 4.7.5 and 4.7.6), some of the relevant content will be deleted

Into the text (see 5.6.2.1, 5.6.2.2, 5.6.2.3 and 5.6.5.4);

--- "Apparatus and Materials", modified "germination bed" "water" and "several appliances" (see 4.1, 4.2 and 4.3,.2001 version 5.1 and

5.2);

--- In the "test procedure", amended the "test sample dispensing" "temperature" "pre-washing", identified in the "basic principles" "complex germ

Sub-unit seedlings "and the judgment of non-germinating seeds" other types "(see 5.1, 5.3.3, 5.4.4.1, 5.6.1,

5.6.4 and 5.6.6.4.4, editions of.2001, 6.1, 6.2.3, 6.4.3.1, 6.5.1, 6.5.2 and 6.5.3.4);

--- Added "sand bed or organic bed", "TPS", "soil", "pre-storage", "mechanical cutting" and "seed disinfection" and so on

(See 5.2.3, 5.2.4, 5.2.5, 5.4.2.3, 5.4.2.9, 5.4.5, 5.6.2 and 5.6.3); delete the words "dry storage"

6.4.1.1);

--- In the "re-test", modify the test method selection and the results of the provisions of the provisions of [Chapter 6, e) and Chapter 6, f),.2001

Version 7.5]; added "Figure 3 re-test flow chart" (see Figure 3);

--- In the "Calculation and Representation of Results" revised the provisions of numerical rounding (see Chapter 7, Chapter 8 of the.2001 edition);

--- In the "Table 1 grass, lawn grass, forage crops and ecological grass seed germination methods", an increase of 59 species of germinating plant

Act (see Table 1); modified method of germination of five plant species "(see Table 1, Table 1 of the.2001 edition);

--- In the "Table 2 ornamental grasses and medicinal plant seed germination methods", an increase of 60 species of germination methods (see Table 2);

--- Removed Appendix A "Additional definitions", part of the relevant content into the body (see 5.6.2, 5.6.3 and 3.7,.2001 version of A1,

A2 and A3); deleted A4 (2001 version of A4);

--- Delete Appendix B, "Allowable Discrepancy", to move the relevant content into the text (see Chapter 8,.2001 edition, Appendix B);

--- In the "allowable gap", an increase of three tests, four tests, as well as different seed number, different trials of tolerance table

(See Table 4, Table 5, Table 7, Table 8, Table 9, Table 10, Table 11, Table 12, Table 13 and Table 14).

This section uses the redrafted law to amend the use of International Seed Testing Association (InternationalSeedestingAssociation, IS-

TA) issued the "International Seeds Inspection Regulations Chapter 5. Germination Test" (2012 edition).

This section and the ISTA "International Seeds Inspection Code Chapter 5. Germination Test" (2012 Edition) compared to the structure of more adjustments, with

A list of this section and the ISTA "International Seed Testing Protocol Chapter 5. Germination Test" (2012 version) Chapter control list

(See table A.1).

This section and the ISTA "International Seeds Inspection Regulations Chapter 5. Germination Test" (2012 version) there are technical differences, these differences

Excluded provisions have been marked by a vertical single line (|) at the margin of the outer

margin, given in Appendix B of the corresponding technical

Differences and their causes list (see Table B.1).

This part is proposed by the Ministry of Agriculture of the People's Republic of China.

This part of the animal husbandry by the National Standardization Technical Committee (SAC/TC274) centralized.

This part of the drafting unit. Lanzhou University grassland agroecosystem State Key Laboratory of Ministry of Agriculture grass and turf grass seed quality supervision

Inspection and Testing Center (Lanzhou), Ministry of Agriculture grass and turf grasses Quality Supervision, Inspection and Testing Center (Beijing), the National Grass Product Quality Supervision and Inspection

Test center.

1 Scope

GB/T 2930 provisions of this part of the seed germination test methods and procedures.

This section applies to the grass, grass, feed crops, ecological grass, ornamental grasses and medicinal plants and other seed quality test germination test.

2 Normative references

The following documents for the application of this document is essential. For dated references, only the dated version applies to this article

Pieces. For undated references, the latest edition (including all amendments) applies to this document.

GB/T 2930.1 grass seed test procedures sample

GB/T 2930.2 grass seed testing procedures clarity analysis

GB/T 8170 rounded repair rules and limit values of the representation and judgment

NY/T 1238 Forage and turfgrass seedling appraisal procedures

3 Terms and definitions

The following terms and definitions apply to this document.

3.1

Germination germination

Seed germination in the laboratory and reached a certain stage of development, the main structure of seedlings at this stage can show that it is suitable for the field conditions