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

GB 18133-2000

Replacing GB 18133-2000; GB 4406-1984 i

**Seed potatoes
(English Translation)**

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Foreword

5.2 This standard is mandatory, the remaining provisions are recommended.

This standard is prepared according to GB/T 1.1-2009 rules.

This standard replaces GB 18133-2000 "virus-free potato seed," partially replace GB 4406-1984 "seed." this standard and GB 18133-2000 difference compared as follows.

- Revised standard name;
- Increasing the normative references;
- Revised terms and definitions;
- Modified seed grading;
- Revised field quality requirements and test methods;
- Revised tuber quality requirements and test methods;

- Increased laboratory testing;
- Revised grading rules;
- Reduce transportation content;
- Revised label content.

This standard replaces GB 4406-1984 of seed potato grading and classification index.

The standard proposed by the People's Republic of China Ministry of Agriculture.

This standard by the National Standardization Technical Committee seed crops (SAC/TC37) centralized.

This standard was drafted. Heilongjiang Provincial Academy of Agricultural Plant virus-free seedlings Institute (Ministry of Agriculture Seed Potato Quality Supervision, Inspection and Testing Center - Harbin), the Institute of Vegetables and Flowers Chinese Academy of Agricultural Sciences, Heilongjiang Academy of Agricultural Sciences Keshan Branch, Northeast Agricultural University, Department of Agronomy, Agriculture Ministry of potato Quality Supervision and Testing Center (Zhangjiakou), Gardening, Hunan Agricultural University, Huazhong Agricultural University, Yunnan Normal University for potato the matter, Chinese Academy of Inspection and Quarantine, the Great Northern Wilderness potato seed research center.

1 Scope

This standard specifies the minimum requirements for quality indicators of seed potato grading, test methods and labels.

This standard applies to the territory of the People's Republic of China seed potato production, testing, marketing and product certification and quality supervision.

2 Normative references

The following documents for the application of this document is essential. For dated references, only the dated version suitable for use herein Member. For undated references, the latest edition (including any amendments) applies to this document.

GB 20464 General labeling of agricultural seeds

3 Terms and Definitions

The following terms and definitions apply to this document.

Comply with the standards specified in the corresponding quality requirements original seed, the original species, and one kind of two kinds.

Original seed (G1) pre-elite with breeder seed, virus-free potato plantlets in vitro or in the insect nets, greenhouse and other conditions of isolation produced by the quality inspection 5.2 Requirements for seed production of seed potatoes.

Stock (G2) elite

With the original seed for seed potatoes, isolated environment in good production, quality inspection by the 5.2 required for one kind of seed production.

One kind (G3) qualifiedI in a relatively isolated environment, with original species for seed production, quality inspection after 5.2 required for the production of two kinds of seed.

Two kinds (G4) qualifiedII in a relatively isolated environment from one kind of seed as production, quality inspection after 5.2 required for the production of seed potato products.

Seed batch seedpotatolot the same source, the same block are basically the same, the same species, the same level and the same harvest period, the quality of potato tubers or plants for Batch.

4.1.1 Virus

Potato virus X (PotatovirusX, PVX).

Potato virus Y (PotatovirusY, PVY).

Potato virus S (PotatovirusS, PVS).

Potato virus M (PotatovirusM, PVM).

Potato leafroll virus (Potatoleafrolvirus, PLRV).

4.1.2 Bacteria

Potato bacterial wilt (*Ralstoniasolanacearum*).

Potato blackleg and soft rot bacteria (*Erwiniacarotovorasubspeciesatroseptica*, *Erwiniacarotovorasub-speciescarotovora*, *Erwiniachrysanthemi*).

Ordinary potato scab fungus (*Streptomycesscabies*).

4.1.3 Fungus

Phytophthora infestans (*Phytophthorainfestans*).

Potato Dry Rot (*Fusarium*).

Potato Wet Rot (*Pythiummultimum*).

Potato mole germs (*Rhizoctoniasolani*).

4.1.4 Insects

Potato tuber moth (*Phthorimaea operculella*).

4.2.1 Viruses and viroids

Potato A virus (*PotatovirusA*, PVA).

Potato spindle tuber viroid (*Potatospindletuberviroid*, PSTVd).

4.2.2 Fungus

Potato cancer germs (*Synchytrium endobioticum*).

4.2.3 Bacteria

Potato Ring Rot (*Clavibacter michiganensis* subspecies *sepedonicus*).

4.2.4 Phytoplasma

Potato Cong broom phytoplasma (*Potato witches' broom phytoplasma*).

4.2.5 Insects

Potato beetle (*Leptinotarsa decemlineata*).

5 Quality requirements

Seed grading 5.1

Seed level is divided into original seed, the original species, and one kind of two kinds.

5.2.1 Quarantine pest tolerance rate

4.2 All quarantine pests listed in the seed production was allowed to "0", once found such a pest, it should be immediately reported to the Quarantine departments to take appropriate measures in accordance with the kinds of pests and quarantine departments, and the land can not be used all the potato seed.

5.2.2 Non-quarantine pests and other items allowed rate

All levels seed non-quarantine pests and other test items shall meet the minimum requirements (see Table 1, Table 2 and Table 3).

Table 1 Level field inspection of seed plants quality requirements
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