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

GB 18133-2012

Seed potatoes

马铃薯种薯

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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. The main drafters of this standard. Baiyan Ju, Bianchun Song, Zhan Li Xue, Jin Liping, Guowei, Shengwan Min, Chen Yi, the Wang Fengyi, Yin Jiang CEREALS, Xie from China, Li Canhui, Li Mingfu, Qiao Yongjun, Yu Bin. This standard replaces the standards previously issued as follows:

--- GB 4406-1984;

--- GB 18133-2000. Seed Potato

1 Scope

GB 18133-2012 is the Chinese national standard on seed potatoes, in the field of agriculture. It carries no /T suffix, which in the Chinese system means compliance is mandatory: a product or a practice within its scope has to meet it to be lawfully made, sold or carried out in China. It was issued on 31 December 2012 by the General Administration of Quality Supervision, Inspection and Quarantine of the People's Republic of China; Standardization Administration of China, and has been in force since 19 December 2013. Classification: ICS 65.020.20, CCS B00. This page is published from the official record of the standard held by the Chinese standards administration: the identification, the dates, the classification and the issuing body are taken from there. The clause text, the tables and the numeric limits are in the document itself, which is delivered complete in English translation.

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.

1.0 Black shank 0 0.1 0.5

1.0 a representative of the detected items as a percentage of positive samples to detect the total number of samples. b represents all the symptoms of a virus of plants. Table 2 level

post-harvest seed quality testing requirements project Allow rate /% Original seed stock
one kind of two kinds Total virus (PVY and PLRV) 0 1.0 5.0

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.

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

3.2 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.

3.3 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.

3.4 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.

3.5 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.

3.6 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 Non-quarantine pests

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 (*Erwinia carotovora* subspecies *atroseptica*, *Erwinia carotovora* subspecies *carotovora*, *Erwinia chrysanthemi*). Ordinary potato scab fungus (*Streptomyces scabies*).

4.1.3 Fungus *Phytophthora infestans* (*Phytophthora infestans*). Potato Dry Rot (*Fusarium*). Potato Wet Rot (*Pythium ultimum*). Potato mole germs (*Rhizoctonia solani*).

4.1.4 Insects Potato tuber moth (*Phthorimaea operculella*).

4.2 Quarantine pests

4.2.1 viruses and viroids Potato A virus (*Potatovirus A*, PVA). Potato spindle tuber viroid (*Potato spindle tuber viroid*, 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

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 project Allow rate a /% Original seed stock one kind of two kinds Hybrid 0 1.0 5.0

6.1 Field inspection

6.1.1 original seed production process inspection Net greenhouse or shed, 30 days to 40 days, under the same conditions of the production environment after the end of the cuttings or tissue culture in vitro potato emergence, the entire plant project Test check visually abnormal plant tissue or organ can not be immediately confirmed to collect samples for laboratory testing.