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

GB 7413-2009

Replacing GB 7413-1987

**Quarantine protocol for propagating tubers and seedlings of
sweet potato in producing areas**

甘薯种苗产地检疫规程

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Foreword

All the technical contents of this standard is mandatory. This standard replaces GB 7413-1987 "potato seedlings quarantine rules." This standard compared with GB 7413-1987, the main changes are as follows:

- Modify the standard English name, standard structure, some of the terms;
- Sweet potato seedlings quarantine procedures, detection and investigation of its aspects was handling the outbreak supplementary provisions. The Standard Appendix A, Appendix D, Appendix E, Appendix G and Appendix H of normative appendix, Appendix B, Appendix C and Appendix F for the data Appendix. This standard by the National Standardization Technical Committee on plant quarantine and centralized. This standard was drafted. National Agricultural Technology Extension Service Center, Anhui Province plant protection station. The main drafters of this standard. Item Yu, Huang Chao, WU Li-feng, Zhu Jing whole, Julie. This standard replaces the standards previously issued as follows:
- GB 7413-1987. Sweet potato seedlings quarantine rules

1 Scope

GB 7413-2009 is the Chinese national standard on quarantine protocol for propagating tubers and seedlings of sweet potato in producing areas, 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 27 April 2009 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 1 October 2009. Classification: ICS 65.020.01, CCS B16. 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 procedures and methods of potato seedlings quarantine. This standard applies to agricultural plant quarantine agencies to implement quarantine potato seedlings.

2 Terms and definitions

The following terms and definitions apply to this standard.

2.1 Plant quarantine bodies of plants and their products (including seeds and other propagating material) quarantine all work in the production process of the country of origin, including Including field survey, indoor testing, issuing certificates and supervise the production units to do the election, the selection and disease treatment and so on.

2.2 Plants, plant products or other regulated articles official visual inspection to determine if pests are present, compliance with phytosanitary Regulations.

2.3 To determine if pests are present or in addition to the visual inspection for the official identification of the pest carried out.

2.4 For areas threatened by its potential economic importance, but not in place in the region, or, having incurred but not widely distributed and official proof Pest governance.

2.5 Sweet potato tubers and potato seedlings.

3 should quarantine pests

3.1 administrative department of agriculture of the State Council published the National Agricultural plant quarantine pests.

3.2 provincial administrative department of agriculture announced supplementary agricultural plant quarantine pests.

4 quarantine accepted

Phytosanitary audit institutions and individuals potato seed production unit's "quarantine applications" (see Appendix A) and the provision of related Materials, to decide whether to accept it.

5 Prepare and technical guidance

Phytosanitary quarantine agencies to develop plans and potato seed breeding base quarantine guidance, sweet potato seedling production parameters prevention measures See Appendix B.

6.1 Field Survey

6.1.1 investigation time In potato breeding period, the growth medium and the potato before each check.

6.1.2 Survey Methods On the basis of comprehensive visual on the take random sampling checks, checks each block to less than five points, each point in the seeding and growing investigation Not less than 10; each point of the investigation before the potato tuber at least 50. Breeding survey area not less than 10% of the area.

6.1.3 Field test Identified in accordance with quarantine pests and biological properties of biological damage symptoms. Stem rot nematode symptoms field identification method, see attached Record C. The field survey results recorded in "quarantine field investigation record" (see Appendix D).

6.2 Indoor testing

6.2.1 Sample collection Collection show symptoms suspicious diseased plant (block), or select growing weak, yellow, small, wilted plants, soil collected in and around the tubers, Back to the laboratory for indoor testing; No suspicious diseased plants (blocks) of the sample collection part of the sample plots indoor testing. Fill out the "pest Survey Sampling was record "(see Appendix E).

6.2.2 Detection Quarantine pest detection method carried out according to the relevant standards; no standard, according to conventional methods for testing. Stem rot nematode Detection See Appendix F.

6.2.3 results found The test results filled with "harmful biological sample appraisal report" (see Appendix G). If necessary, to prepare specimens to be saved.

7 disease treatment

7.1 Seed found with quarantine pests, immediately stop breeding.

7.2 outbreak occurred seedlings, quarantine fumigation treatment or take place burned, digging deep and other measures. Not yet show symptoms of potato Block, the need for

quarantine fumigation treatment can not quarantine quarantine treatment may be made after concentrated feed processing cooked.

7.3 occurred quarantine pests and disease to disease to surrounding plots, should replant the pest non-host crops.

8 Visas

8.1 After field, indoor inspection found no quarantine pests of seedlings, plant quarantine agencies to issue "quarantine certificate" (see Annex Record H). "Quarantine certificate" valid for 1 year.

8.2 found quarantine pests, quarantine insecticide treatment shall be issued "quarantine certificate"; quarantine insecticide treatment failure And not the issue of "quarantine certificate" and inform the applicant or quarantine individuals.

9 File Management

Raw survey data in quarantine process, forms, samples and other data files you want to keep, save time less than 2 years.

Appendix A

(Normative) Quarantine application Table A. 1 quarantine application ID. The date Plant Names Species name Species (Miao) Source Production area It is expected to yield Production sites Production for the period from expiring Applicant Name (stamp). Address. Zip. Contact (Signed). Tel. Fax. Requirements for this document sending method Come to collect Express mail Standard Delivery

Appendix B

(Informative) Sweet Potato seed production prevention measures B. 1 seed to selection B.

1.1 seedlings to be elected in the region free from quarantine pests occur. Selection of more than 3 years not planted to sweet potatoes as a disease-free seed Tian, strict selection, seedling selection. B.

1.2 There shall be selected from the outbreak area in isolation conditions (not potato species within around 1km range, seedlings or ground irrigation system on independence Tour without quarantine pests) plots. B. 2 seed selection B.

2.1 Seed collected from non-quarantine pests region occur. B.

2.2 The nursery of seedlings one by one check, choose healthy seedlings. Suspicious diseased (block) indoor identification. B. 3 seed to prevention measures B.