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

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**Guidelines for the establishment of agricultural plant
quarantine laboratories**

农业植物检疫实验室基础条件

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Foreword

This standard by the National Standardization Technical Committee on plant quarantine and centralized. This standard was drafted. National Agricultural Technology Extension Service Center, Sichuan Province Plant Quarantine Station. The main drafters of this standard. WU Li-feng, Ning Hong, Guo Jin Di, Xie Chenglun, Emily, Huang Ling, Xiong Yulan. Agricultural Plant Quarantine Laboratory Infrastructure

1 Scope

China's national guidelines for the basic conditions of an agricultural plant quarantine laboratory. It specifies the requirements for the premises, the facilities, the equipment, the personnel and the management of a laboratory performing plant quarantine work. A plant quarantine laboratory does something that most testing laboratories do not: it handles living organisms that must not escape, and it produces results on which trade decisions and eradication campaigns are based. Both halves generate requirements. The containment half means the laboratory is designed around not releasing what it receives: the layout separates the receiving and sample preparation areas from the rest, the rearing and incubation rooms are sealed and their air and waste are treated, all plant material and cultures are autoclaved or incinerated before disposal, and the flow of people and material through the building runs one way. A quarantine pest released from the laboratory that was set up to detect it is the failure the whole design exists to prevent. The competence half means the result has to stand up. Identification of a quarantine organism is frequently morphological and rests on the reference collection, the microscopes and the expertise of an individual; increasingly it is also molecular, which brings its own requirement for separated pre- and post-amplification areas because contamination produces false positives that stop shipments. So the standard sets the areas and their separation, the equipment for microscopy, incubation, rearing, molecular work and sterilisation, the reference collections and cultures, the personnel qualification, and the records and quality management that make a finding defensible. Issued on 27 April 2009 and in force since 1 October 2009.

This standard specifies the terms of agricultural plant quarantine laboratory staffing levels, inspection buildings, facilities, equipment and other environmental conditions and in Foundation conditions require. This standard applies to agricultural phytosanitary laboratory building at all levels.

2 Terms and definitions

The following terms and definitions apply to this standard.

2.1 Mainly responsible for plant quarantine pest inspection and identification tasks Laboratory of plant quarantine institutions at all levels established.

3 Agriculture Plant Quarantine Laboratory Staffing

3.1 Staffing Requirements Phytosanitary laboratory is equipped with test levels should be reasonable and adapted to other tasks of high, middle and junior professional and technical personnel, including Laboratory director, technical director, inspectors and support staff. Laboratory director, technical director, full-time inspectors should phytosanitary Who served. Provincial and provincial phytosanitary laboratories should be equipped with three or more fixed professional and technical personnel, municipal and county plant inspection Phytophthora laboratory should be equipped with 2 or more fixed professional and technical personnel.

3.2 professional and technical personnel skills required

3.2.1 above the provincial level and provincial phytosanitary laboratory

- With plant pathogens, insects and weed agricultural classification basics and conventional inspection techniques;
- Identify quarantine pests and damage symptoms morphological characteristics, familiar with its biological characteristics, transmission, occurrence and pesticides Processing technology;
- Proficiency testing technology targeted pest and other new technologies;
- Understand the relevant quarantine pest epidemic trends and relevant knowledge at home and abroad.

3.2.2 municipal and county phytosanitary laboratory

- With plant pathogens, insects and weed agricultural classification basics and conventional inspection techniques;
- Identify quarantine pests and damage symptoms morphological characteristics, familiar with its biological characteristics, transmission, occurrence and pesticides Processing technology;

--- Master quarantine pests targeted inspection techniques.

3.3 support staff skill requirements Laboratories should be specially trained support staff, have the appropriate practical skills.

4 Phytosanitary laboratory buildings, facilities and environmental conditions

4.1 space Phytosanitary laboratory space at all levels should not be less than the basic requirements of Table 1. * * *