

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

SN/T 1135.3-2016

Replacing SN/T 1135.3-2003

Detection and identification of Potato mop-top virus

马铃薯帚顶病毒检疫鉴定方法

(English Translation)

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Foreword

SN/T 1135 series of standards is divided into 13 parts.

- Part 1. Potato disease detection and identification of cancer;
- Part 2. Potato yellow dwarf virus quarantine and identification methods;
- Part 3. Potato top broom virus quarantine and identification methods;
- Part 4. Potato powdery mildew quarantine and identification methods;
- Part 5. Potato ringworm bacteria quarantine and identification methods;
- Part 6. Potato virus pathogen quarantine and identification methods;
- Part 7. Potato virus A quarantine and identification methods;
- Part 8. Potato asymptomatic bacteria quarantine and identification methods;
- Part 9. Potato bacterial wilt quarantine and identification methods;
- Part 10. Potato virus V quarantine and identification methods;
- Part 11. Potato pathogens quarantine and identification methods;
- Part 12. Potato M virus quarantine and identification methods;
- Part 13. Potato virus Y quarantine and identification methods.

This part of the SN/T 1135 Part 3.

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

This Part replaces SN/T 1135.3-2003 "potato broom top virus quarantine and identification methods." this section compared with the SN/T 1135.3-2003, the main technical differences are as follows.

- Removed "Introduction";
- Removed the "Terms and definitions" chapter;
- Added "potato broom top virus basic information" chapter;
- Removed "on-site quarantine and sampling" chapter;
- Added "test method" section;
- Modify the RT-PCR detection method.

Please note that some of this document may be patentable. The publication structure of this document does not bear the responsibility of identifying these patents.

This part of the national certification and accreditation supervision and management committee proposed and centralized.

This part of the drafting unit. China Inspection and Quarantine Science Institute.

1 Scope

This section provides the basic principles and methods of potato broom top virus quarantine and identification.

This section applies to all entry seed, potato products, tissue culture seedlings and virus-free potato germplasm in the potato broom top virus quarantine test Field investigation of diseases caused by potato broom top virus.

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.

SN/T 1840 plant virus immune electron microscopy detection method SN/T 2122
Quarantine sampling of entry and exit plants and plant products

3 Potato top broom virus basic information

Chinese name. Potato top broom virus Scientific name .Patatomop-topvirus Abbreviation.
PMTV Taxonomic status Virgaviridae Potato, genus Pomovirus.

See Appendix A for additional information on potato broom top virus.

4 Method principle

The serological characteristics, molecular biological characteristics and biological characteristics of potato broom top virus are the main basis for quarantine and identification.

5.1 Equipment

Electronic analytical balance (0.0001g), small centrifuge, desktop refrigerated centrifuge, constant temperature water bath, microplate reader, general PCR machine, electrophoresis System, pH meter, gel imaging system, 4 ° C refrigerator, ultra clean bench, ultra low temperature refrigerator at -80 ° C, autoclave, ice maker, vortex oscillation Microwave oven, electron transmission microscope and the like.

5.2 Appliances

Adjustable pipette (2.5 µL, 10 µL, 20 µL, 100 µL,.200 µL, 1000 µL, 5000 µL) and corresponding RNase-free tip, RNase-free centrifuge tubes, PCR tubes, mortars, sample bags, labels and more.

5.3 Reagents

Except for special instructions, all experimental reagents are of analytical grade.