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INDUSTRY STANDARD OF THE PEOPLE'S REPUBLIC OF CHINA

SN/T 3440-2012

Detection and identification of tobacco rattle virus

烟草脆裂病毒检疫鉴定方法

(English Translation)

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Foreword

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

This standard is proposed and managed by the National Certification and Accreditation Administration Committee.

This standard was drafted. People's Republic of China Shanghai Entry-Exit Inspection and Quarantine Bureau, People's Republic of China Guangdong Entry-Exit Inspection and Quarantine Bureau, Chinese Academy of Inspection and Quarantine, Xiamen People's Republic of China Exit Inspection and Quarantine.

1 Scope

This standard specifies the tobacco rattle virus DAS-ELISA, RT-PCR, differential host reactions and immune electron microscopy four kinds of detection and identification method.

This standard applies to the entry and exit of live plant material, including vegetative propagation material, tissue culture, seeds and seedlings in the tobacco rattle virus Testing.

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.

SN/T 1840 plant virus immune electron microscopy method SN/T 2122 entry and exit

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quarantine of plants and plant products sampled Principle 3

3.1 Basic information tobacco rattle virus

Chinese name. tobacco rattle virus Name. tobaccorattlevirus Abbreviation. TRV Taxonomic position. tobacco rattle virus genus (tobravirus) Tobacco rattle virus For additional information, see Appendix A.

3.2 Based quarantine and identification

Tobacco rattle virus particle morphology, damage symptoms, serological properties and molecular characterization of the virus is to quarantine and identification of major Basis, using DAS-ELISA, RT-PCR, immune electron microscopy and differential host reactions and other methods to identify and quarantine.

4.1 Instrument

PCR instrument, microplate reader, electronic balance (1/1000g), electrophoresis, tank, gel imaging system, a transmission electron microscope, water bath, High-speed refrigerated centrifuge, -80 °C ultra-low temperature refrigerators, autoclaves, ice maker, microwave, vortex oscillators.

4.2 Facilities

Quarantine greenhouse (10 °C ~ 30 °C).

4.3 Appliances

Adjustable micropipette (2μL, 10μL, 100μL, 200μL, 1000μL, 5000μL) and the corresponding RNase-free tip, no

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