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INDUSTRY STANDARD OF THE PEOPLE'S REPUBLIC OF CHINA

SN/T 3687-2013

Detection and identification of peach X phytoplasma

桃X病植原体检疫鉴定方法

(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 Hubei Exit Inspection and Quarantine, Huazhong Agricultural University, the People's Republic of China Liaoning Entry Inspection and Quarantine Bureau.

1 Scope

This standard specifies the phytosanitary peach X disease (PeachXdisease) site quarantine and identification of molecular biology.

This standard applies to the entry and exit inspection and identification of peach, nectarine, cherry, plum and other seedlings of peach X disease phytoplasma.

2 Peach X disease phytoplasma basic information

English name. PeachXphytoplasma Taxonomic position. Bacteria bound (Bacteria), soft wall bacteria door (Tenericutes), flexible membrane Proteobacteria (Molicutes) (also known as soft cocci Gang), unfixed Alcohol Mycoplasma mesh (Acholeplasmatales), non-steroidal MLO Branch (Acholeplasmataceae), phytoplasma genus (phytoplasma), 16SrIII phytoplasma group. The geographical distribution of phytoplasma, host range and symptoms, transmission and genomic features, etc. See Appendix A.

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3 PRINCIPLE OF THE METHOD

Morphological DAPI staining after preliminary screening methods; to phytoplasma ribosomal 16SrDNA universal primers for PCR amplification, Sequencing and restriction endonuclease fingerprinting as the main basis for judgment.

4.1 Equipment

PCR, fluorescence microscopy, ultra-clean table, slicing machines, electrophoresis, gel imaging analyzer, refrigerated centrifuge, electronic scales (1/10000g), ultra-low temperature freezer, conventional refrigerators, autoclaves, pH meter, water bath pot, oscillators.

4.2 Appliances

Adjustable pipette (0μL ~ 20μL, 20μL ~ 200μL, 200μL ~ 1000μL), tip, mortar tubes (1.5mL, 10mL), PCR tubes (0.2mL), graduated cylinders, beakers tweezers.

5.1 CTAB buffer

CTAB

Tris-HCl

EDTA

Sodium chloride (NaCl) PVP40 2% 100mmol/L (pH8.0) 20mmol/L (pH8.0) 1.4mol/L 1%

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