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INDUSTRY STANDARD OF THE PEOPLE'S REPUBLIC OF CHINA

SN/T 3686-2013

Detection and identification of Candidatus Phytoplasma fraxini

白蜡树黄化植原体检疫鉴定方法

(English Translation)

Issued on: August 30, 2013 **Implemented on: March 1, 2014**

Issued by: General Administration of Customs

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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. Tianjin People's Republic of China Entry-Exit Inspection and Quarantine Bureau, Chinese Academy of Inspection and Quarantine, the People's Republic of China Exit Inspection and Quarantine and the State of Liaoning.

1 Scope

This standard specifies the quarantine and identification of the original body of an ash tree yellow plant.

This standard applies to the entry and exit of the ash tree seedlings planted ash trees yellow quarantine and identification of the original body.

Principle 2

2.1 Taxonomic status

Ash yellows phytoplasma (CandidatusPhytoplasmafraxini, Ashyelowsphytoplasma), soft wall door bacteria (Tenericutes), flexible membrane Proteobacteria (Molicutes), non-steroidal MLO mesh (Acholeplasmatales), non-steroidal MLO Section (Achole-plasmataceae), phytoplasma genus (Phytoplasma), 16SrVII phytoplasma group.

2.2 Identification of Ash yellows phytoplasma molecular biological characteristics of this standard identification methods as the main basis.

The standard application phytoplasma classification and identification software

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(iPhyClassifier), to give specific phytoplasma ribosomal 16SrDNA sequence limit System simulation endonuclease fingerprinting, restriction maps of the simulation software as the basis for identification.

3.1 Instrument

PCR instrument, clean benches, autoclaves, ice machines, refrigerated centrifuge desktop, small desktop centrifuge, ultra-low temperature freezer, conventional ice Boxes, Vortex, micro-injector, electrophoresis, gel imaging system.

3.2 Appliances

Adjustable pipette (20μL, 200μL, 1000μL) and related tips, mortar, centrifuge tubes (2mL), PCR tubes, graduated cylinders, beakers alcohol Light, tweezers.

3.3.1 Slurry

Na2HPO4 0.1mol/L

NaH2PO4 0.03mol/L

EDTA 10mmol/L (pH8.0) Sucrose 10% (mass concentration) Polyvinylpyrrolidone (PVP) -40 2% (mass concentration) Adjusted to pH 7.6, followed by filtered sterilization.

Before using 0.15% (mass concentration) bovine serum albumin (BSA) and 1mmol/L of vitamin C.

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