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INDUSTRY STANDARD OF THE PEOPLE'S REPUBLIC OF CHINA

SN/T 3752-2013

Detection and identification of Phacidiopycnis washingtonensis Xiao and J.D Rogers

苹果星裂壳孢果腐病菌检疫鉴定方法

(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 Guangdong CIQ.

1 Scope

This standard specifies the phytosanitary quarantine and identification of apple star crack shell Alternaria fruit rot bacteria.

This standard applies to the entry of apples and pears quarantine and identification of plants and fruit apple star crack shell Alternaria fruit rot bacteria.

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 2455 entry and exit inspection and quarantine procedures fruits

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3 Quarantine and identification principles

Apple star crack shell Alternaria fruit rot symptoms on host bacteria, morphology and cultural characteristics and molecular characterization is formulated the main basis for standards. Taxonomic status of the pathogen, host range, distribution, and damage symptoms background information, see Appendix A.

4.1 Instrument

Stereo microscope, biological microscope, clean benches, autoclaves, bio-incubator, high-speed desktop centrifuge, PCR amplification, pour Gel imager, electronic balance (inductance 0.01g), water bath, pH meter.

4.2 Appliances

Sample bags, labels, magnifying glass, forceps, scalpels, alcohol lamp, inoculation needles, petri dish (diameter 9cm), beakers, flasks, test tubes, the amount of Cylinder, slides, cover slips, mortar and pestle, micropipette (adjustable range. 2.5μL ~ 1000μL), centrifuge tubes.

5.1 Reagents

1% NaClO solution, ethanol, 70% ethanol, sterile double distilled water, 2% CTAB extraction buffer, 10% SDS solution, 3mol/L Sodium acetate solution, PCR reagents (including Taq polymerase, dNTP, Buffer), phenol, chloroform, isoamyl alcohol, Tris-HCl, EDTA, Agarose, DNA molecular weight standards, TBE electrophoresis buffer.

5.2 Medium

Potato dextrose agar (PDA). Peeled potato 200g per 1000mLPDA made, 20g glucose, 18g agar Preparation.

Acid potato dextrose agar medium (APDA). each 1000mLPDA 4.0mL25% lactic acid was added.

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