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SN/T 1135.11-2013

Detection and identification of Polyscytalum pustulans (M.N.Owen et Wakef.)M.B.Ellis

马铃薯皮斑病菌检疫鉴定方法

(English Translation)

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Foreword

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

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

This section drafted by. China Inspection and Quarantine Science Research Institute.

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Potato skin patch quarantine and identification of bacteria

1 Scope

SN/T 1135 This section provides the quarantine and identification of potato peel leaf spot pathogen.

This section applies to quarantine and identification of potato tubers potato peel leaf spot pathogen.

2 Basic information of germs

Chinese name. potato skin patch germs English name. Skinspotofpotato Scientific name. Polyscytalumpustulans (MNOwenetWakef.) MBElis Synonym. OosporapustulansM.N.Owen Taxonomic position. Fungi (Fungi), mitosis fungal spores (Mitosporicfungi), snake Mortierella (Polyscytalum).

Transmission. pathogen primary infection source is a tuber, spores by rain, irrigation close spread by seed or remote tape Soil disease spread.

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For additional information potato peel leaf spot pathogen in Appendix A.

3 PRINCIPLE OF THE METHOD

Potato skin patch pathogen morphology and molecular characterization of identification basis.

4.1 Instrument

Microscope (with measurements), stereo microscope, clean benches, biological incubator, scales, autoclaves, desktop high-speed centrifugation Machine, pH meter, water bath, real-time PCR amplification.

4.2 Appliances

Beakers, flasks, graduated cylinder, test tubes, petri dishes, alcohol lamp, tweezers, scissors, scalpels, needle inoculation, slides, cover slips, plastic pestle Pipettes, pipette tips, centrifuge tubes, liquid nitrogen tank.

5.1 Reagents

Glucose, agar powder, liquid nitrogen, Tris-HCl, MgCl2, HCl, EDTA, NaOH, NaOAC, KCl, Tris, CTAB, TAE, no Aqueous ethanol (Ethanol), SYBRGreenI nucleic acid dyes, chloroform (Chloroform), isopropyl alcohol (Isopropanol), iso-amyl alcohol (Isoamyl alcohol), proteinase K, TaqDNA polymerase, dNTP, universal primers ITS5 and ITS4, real-time PCR primers PpustF1, PpustR2 and probe PpustPr1.

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