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INDUSTRY STANDARD OF THE PEOPLE'S REPUBLIC OF CHINA

SN/T 3675-2013

Detection and identification of Rhizoctonia fragariae Husain et W.E.McKeen

草莓花枯病菌检疫鉴定方法

(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 Hubei Exit Inspection and Quarantine, Chinese Academy of Inspection and Quarantine, the People's Republic of China State and Jiangsu Entry-Exit Inspection and Quarantine Xiamen People's Republic of China, People's Republic of China Shandong Entry-Exit Inspection Quarantine Bureau, Tianjin, People's Republic of China Exit Inspection and Quarantine.

1 Scope

This standard specifies the strawberry flower blight pathogen quarantine and identification methods.

This standard applies to the strawberry seeds, seedlings and fruits of strawberry flower blight quarantine and identification of bacteria.

2 Normative references

The following documents for the application of this document is essential For dated references, only the dated edition applies to this article Member. For undated references, the latest edition (including any amendments) applies to this document.

Laboratory use specifications and test methods GB/T 6682 Analysis

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3 Basic information of germs

Chinese name. strawberry flower blight pathogen Name. RhizoctoniafragariaeHusainetW.E.Mckeen Taxonomic position. strawberry flower blight pathogen anamorph Rhizoctoniafragariae belong Fungi Fungi, Deuteromycetes door Basidiomycota, Trichosporon Gang Hyphomycetes, non-spore head Agonomycetales, non-spore Branch Agonomycetaceae, Rhizoctonia Rhizoctonia. Sexuality Ceratobasidiumcornigerum, belonging burden Amon Basidiomycota, Agaricales Gang Agaricomyce-tes, chanterelles head Cantharelales, Basidiomycetes angle Branch Ceratobasidiaceae, Tam Kok genus Ceratobasidium.

Transmission. contaminated strawberries, root, bud, Soil is the main way to spread long distances.

For additional information, see Appendix A.

4 Principle of the method

According strawberry flower blight pathogen in the host Damage symptoms, morphological characteristics, cultural characteristics and other characteristics of the results of determination.

5.1 Equipment

PCR instrument, clean benches, autoclaves, ice maker, nucleic acid protein analyzer, high-speed refrigerated centrifuge, small desktop centrifuge, ultra Cryogenic refrigerators, conventional refrigerator, Vortex, constant temperature water bath, micro-injector, electrophoresis, gel electrophoresis equipment, gel imaging system, stereo Microscope, biological microscope (with a microscopic camera device), the balance (sense of volume 0.1g), micrometer, light incubator like.

5.2 Reagents and culture medium

Agarose powder, sodium hypochlorite (NaClO4), chloramphenicol, primers, Tris (Tris), cetyltrimethylammonium bromide (CTAB), ethylene diamine tetra-acetic acid (EDTA), ethanol, proteinase K, phenol, chloroform, isoamyl alcohol, ammonium acetate (NH4Ac), chloride Magnesium (MgCl2), PCR buffer, dNTPs (dATP, dTTP, dCTP, dGTP), TaqDNA polymerase, ethidium bromide (the EB), liquid N, 3.5% formaldehyde, diamino-2-phenylindole (the DAPI), potassium nitrate (of KNO3), water and potato dextrose agar medium (PDA). real

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