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INDUSTRY STANDARD OF THE PEOPLE'S REPUBLIC OF CHINA

SN/T 3746-2013

Detection and identification of Fusarium oxysporum f.sp.lilii

百合枯萎病菌检疫鉴定方法

(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 Shanghai Entry-Exit Inspection and Quarantine Bureau, Shanghai Academy of Agricultural Sciences, Xiamen People's Republic of China Door CIQ.

1 Scope

This standard specifies the method for inspection and identification Lily Fusarium.

This standard applies to lily bulb scales carried withered lily quarantine and identification of bacteria.

2 Basic information of germs

Chinese name. Lily Fusarium oxysporum English name. lilyfusariumwilt Name. Fusariumoxysporumf.sp.liliiSnyd.

Taxonomic position. asexual stage belongs. Fungi (KingdomFungi), imperfect fungi Amon (Deuteromycotina), Trichosporon Gang (Hy-phomycetes), tumor seat spore head (Tuberculariales), tumor seat spore Branch (Tuberculariaceae), Fusarium (Fusarium). No Sexual stage.

Transmission. There are. a) soil-borne, the spread of contaminated soil is one of the main ways of the spread of the pathogen; b) bulbs borne diseases, with Bulbs disease spread

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disease through sale, transportation and other means; c) residues contaminated, sick balls debris large number of pathogens in the soil can be long-term Survival, in the process of re-planting, can spread germs.

Lily Fusarium additional information, see Appendix A.

3 PRINCIPLE OF THE METHOD

This standard is based on the characteristic symptoms of harmful bacteria on the main lily bulb ball, morphological characteristics and PCR reaction characteristics identified one hundred Together Fusarium basis.

4 Apparatus and appliances

4.1

The main instruments and appliances Clean bench, incubator, biological microscopes, stereo microscope organism, PCR instrument, gel electrophoresis, desktop refrigerated centrifuge, water Bath incubator, ice maker, Vortex, electrophoresis, constant temperature water bath, UV transmission analyzer, gel imaging system, a mortar and pestle, the balance (flu the amount of 0.0001g), white disk and pointed tweezers, pH meter, plastic bags, tubes and the like.

4.2 Reagents and culture medium

Sodium hypochlorite, Tris-HCl, sodium chloride, EDTA, chloroform, isoamyl alcohol, four kinds of deoxynucleotide triphosphates (dNTPs), ethidium bromide (EB), RNase enzyme, polyvinylpyrrolidone (PVP), isopropanol, mercaptoethanol, bromophenol blue, CTAB, Taq enzyme. PSA medium (Potato 200g, sugar 20g, Agar 20g, Distilled water 1000mL).

5.1 Symptom Check

According to the characteristics of specific symptoms lily blight in lily bulb scales, well-lit place, for samples taken by one tuber inspection table

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