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INDUSTRY STANDARD OF THE PEOPLE'S REPUBLIC OF CHINA

SN/T 3681-2013

Detection and identification of Acidovorax konjac(Coto, 1983)Willems, et al.1992

魔芋细菌性叶斑病菌检疫鉴定方法

(English Translation)

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Foreword

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

Please note that some of the content of this document may involve patents. Distribution of this document Institutions do not assume the responsibility to identify these patents.

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

This standard was drafted. People's Republic of China Shandong Entry-Exit-Entry Inspection and Hubei People's Republic of China Quarantine Bureau.

1 Scope

This standard specifies the method of entry and exit quarantine and identification of plants and their products konjac bacterial leaf spot fungus.

This standard applies to the entry and exit of konjac bacterial leaf spot of host plants and propagation material in quarantine and identification of the 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.

GB/T 4789.28-2003 Microbiological examination of food hygiene staining, media and reagents SN/T 1157 export plant seedlings quarantine rules

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3 Konjac bacterial leaf spot basic information

Scientific name. Acidovoraxkonjaci (Goto, 1983) Wilems, etal 1992.

Synonyms. Pseudomonasavenaesubsp.konjaci (Goto, 1983) Hu, etal, 1991; Acidovoraxavenae.

subsp.konjaci; Pseudomonaspseudoalcaligenessubsp.konjaciGoto1983.

Taxonomic position. Prokaryotae (Procaryotae), thin-walled bacteria door (Gracilicutes), dark bacteria Gang (Scotobacteria), Pseudomonas pole Bacteria mesh (Pseudomonadales), Pseudomonas Branch (Pseudomonadaceae), eosinophilic genus (Acidovorax).

Transmission. contaminated seed taro propagation distance is the main way. Greenhouse and in the field, mainly through irrigation water, rain, wind, trim Sticks and other communication from the wound, pores and cracks naturally invade host tissue.

For additional information, see Appendix konjac bacterial leaf spot fungus A.

4 Principle of the method

Disease-like symptoms collected in the field, laboratories isolated and purified culture and Gram stain, physiology and biochemistry, molecular biology and pathogenicity determination according to Detection, identification characteristics were consistent with science, test result is positive, it is determined konjac bacterial leaf spot.

5.1 Instruments and appliances

Biological microscope, a transmission light source stereomicroscope, clean benches, electronic scales, light incubator, PCR amplification device, electrical Swimming instrument, gel imager, autoclave, alcohol lamp, a petri dish (diameter. 7.0 and 9.0cm), the medical injector (10mL), the needle (No. 18), medical surgical scissors, forceps, scalpels, beakers (500mL), the tube (diameter 12mm), slides, cover slips, cylinder (500mL).

5.2 Reagents

Unless otherwise specified, all reagents were of analytical grade. Distilled water, peptone, 0.1% sodium hypochlorite or 75% ethanol, the PPSM medium,

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