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INDUSTRY STANDARD OF THE PEOPLE'S REPUBLIC OF CHINA

SN/T 3170-2012

Detection and identification of Xylella fastidiosa

葡萄皮尔斯病菌检疫鉴定方法

(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 Beijing Entry-Exit Inspection and Quarantine Bureau, People's Republic of China Tianjin Entry-Exit Inspection and Quarantine Bureau.

1 Scope

This standard specifies the entry in the phytosanitary quarantine and identification of grape Pierce bacteria.

This standard applies to entry quarantine and identification of plant seedlings, plant propagation material and product grape Pierce 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 1860 plant virus immune electron microscopy method Principle 3

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3.1 Grape Pierce bacteria taxonomic status

Grape Pierce germs scientific name Xylellafastidiosa Welsetal, 1987, the genus Prokaryotae (Procaryotae), thin-walled Bacteria door (PhylumGracilicutes), xylem small genus (Xylella).

3.2 Based quarantine and identification

In bacteria characteristic symptoms on the host, pathogen morphological characteristics and cultural characteristics, as well as the characteristics of the bacteria species genome sequence as Portugal Pierce grapes quarantine pathogen identification based, if necessary, assisted Pathogenicity Test (see Appendix A).

4.1 Apparatus, equipment, utensils

Clean benches, biological incubator, electronic scales, microplate reader, PCR instrument, gel imager, water bath, high-speed refrigerated centrifuge, high pressure Autoclave, transmission electron microscopy, refrigerators, liquid nitrogen tanks, scalpel blades, white disk humidors, mortar, micropipette (adjustable range.

2.5μL ~ 1000μL), tip (10μL, 100μL, 1000μL), centrifuge tubes (1.5mL), PCR tubes, ELISA plate.

4.2 Reagents and culture medium

Test required medicines were of analytical grade.

Test reagent used in succinic acid - citrate - phosphate buffer, and its method of preparation see Appendix B.

PD2 used in the test medium, CS20 medium, PW medium, SPW medium, its method of preparation, see Appendix B.

5.1 Pairs antibody sandwich ELISA (DAS-ELISA) detection

The use of double-antibody sandwich enzyme-linked immunosorbent assay samples were screened (see Appendix C), if the test result is positive, the need for pathogens

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