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PEOPLE'S REPUBLIC OF CHINA

SN/T 3424-2012

Detection and identification of Pseudomonas syringae pv.lachrymans

黄瓜细菌性角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. China Inspection and Quarantine Science Research Institute, Xiamen People's Republic of China Exit Inspection and Quarantine.

1 Scope

This standard specifies the preparation, sample detection methods cucumber bacterial angular leaf spot fungus, the result of the determination and strain preservation and so on.

This standard applies to possible quarantine and identification of bacteria carrying cucumber bacterial angular leaf spot of cucumber seeds, seedlings and its products.

2 Basic Information

Name. Pseudomonassyringaepv.lachrymans Synonyms. Pseudomonaslachrymans (Smith Bryan) Holand1920, Bacteriumburgeri (Potebnya) Burgvits1935, BacteriumlachrymansSmith Bryan1915, Chlorobacterlachrymans (Smith mans (Smith Pseudomonasburgeri (Potebnya) Korobko Taxonomic position. Bacteria bound (bacteria), Proteobacteria (Proteobacteria), gamma- Proteobacteria (Gammaproteobacteria),

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Pseudomonas Aeromonas mesh (Pseudomonadales), Pseudomonas Branch (Pseudomonadaceae), Pseudomonas (Pseudomonas).

Transmission. contaminated seed is the main form of long-distance spread of bacteria from the pores, wounds, water holes invade the host through irrigation, wind and rain, Airflow, insects and farming jobs in the field has spread.

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

3 PRINCIPLE OF THE METHOD

According to specific reaction cucumber bacterial angular leaf spot between bacteria and antibodies, cucumber seeds or products by ELISA; the basis of the Polymorphic DNA sequences were PCR pathogen specific detection by electrophoresis results to determine the size of the band.

4.1 Equipment

ELISA detector, biological microscope, biological safety cabinets, autoclaves, incubator, centrifuges, PCR instrument, electrophoresis equipment, gel Imaging systems.

4.2 Reagents

Unless otherwise specified, all reagents were of analytical grade. PCRPremix, beef peptone, tryptone, K2HPO4, KH2PO4, MgSO4, agar, ELISA detection reagent in Appendix B.

5.1 Detection step

Leaves, seedlings or the like can be directly 5.3ELISA 5.4PCR detection, seeds can be planted 5.2 or directly observed

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