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INDUSTRY STANDARD OF THE PEOPLE'S REPUBLIC OF CHINA

SN/T 3403-2012

Detection and identification of Phytophthora phaseoli Thaxter

菜豆疫霉检疫鉴定方法

(English Translation)

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Preview: page 1 of 3 shown, 7 in the full document. Complete English PDF, instant download:
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Table of Contents

Foreword
1 Scope
2 Normative references
3.1 Taxonomic status
3.2 Mode of transmission of pathogens
3.3 Identification of principle
4 Appliances, instruments and reagents
4.1 Instrument appliances
4.2 Reagents and culture medium

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, Shenzhen Entry-Exit Inspection and Quarantine Bureau, Shenzhen Inspection and Quarantine Science Research Institute, the Chinese people Republic of Beijing Exit Inspection and Quarantine.

1 Scope

This standard specifies the bean Phytophthora (PhytophthoraphaseoliThaxter) lima beans (PhaseoluslunatusL.) On Quarantine and identification methods.

This standard applies to Phytophthora bean seed and host plant quarantine.

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 1809 export plant quarantine rules for seed SN/T 2122 entry and exit quarantine of plants and plant products sampled Principle 3

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3.1 Taxonomic status

English name. LimaBeanDownyMildew Name. PhytophthoraphaseoliThaxter Bean blight genus eukaryotes (Eukaryota), algae bacteria community (Chromalveolata), Oomycetes (Oomycetes), Pythium Head (Pythiales), Pythium Branch (Pythiaceae), Phytophthora (Phytophthora).

3.2 Mode of transmission of pathogens

Oospores overwinter in the soil or plant debris, seeds or pods oospores formed after wintering as a primary infection source. High humidity Under the conditions, the bacteria produce large amounts of sporangia, means of wind and rain spread.

3.3 Identification of principle

According to the distribution of pathogens, host range and damage symptoms on host plants (see Appendix A), morphological characteristics, microsurgery Mirrors and other relevant instruments of common bean Phytophthora quarantine identified.

4.1 Instrument appliances

Stereo microscope, microscopes, ovens, autoclaves, clean benches, light incubator or light training aircraft, UV lamp, hand-held magnifying glass, Filter paper, beakers, Petri dishes, test tubes, flasks, forceps, scalpels, slides, cover slips, measuring alcohol lamp, straw.

4.2.1 Reagents

Sterile water, 1.25% sodium hypochlorite.

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