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INDUSTRY STANDARD OF THE PEOPLE'S REPUBLIC OF CHINA

SN/T 3399-2012

Detection and identification of Diaporthe phaseolorum var.caulivora and Diaporthe phaseolorum var.meridionalis. Real-time fluorescent PCR with Taq Man MGB probe

大豆茎溃疡病菌检疫鉴定方法-TaqMan MGB探针实时荧光PCR检测方法

(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, Shenzhen CIQ, Shenzhen Inspection and Quarantine Science Research Institute.

1 Scope

This standard specifies the soybean stem canker, including soybeans northern stem canker [Diaporthephaseolorum (CookeetEl.) Sacc.

var.caulivoraAthowetCaldwel] Southern stem canker and soybean [Diaporthephaseolorum (CookeetEl.) Sacc.var.meridionalisF.A.Fernandez] TaqManMGB time PCR probe quarantine and identification methods.

This standard applies to soybean seeds, plant debris soybean stem canker quarantine and identification of real-time PCR.

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 1899 Phytosanitary soybean stem canker quarantine and identification methods

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Principle 3

3.1 Basic Information

scientific name.

Soybean stem canker North. Diaporthephaseolorum (CookeetEl.) Sacc.var.caulivoraAthowetCald-wel Southern soybean stem canker. Diaporthephaseolorum (CookeetEl.) Sacc.var.meridionalisF.A.Fer-nandez English common name. SoybeanStemCanker Taxonomic position. Soybean stem canker fungi industry Fungi, Ascomycota Ascomycota, Ascomycetes steel Ascomycetes, Zama shell Head Diaporthales, black shell Yuba Branch Valsaceae, Zama shell genus DiaportheNits.

Approximate species. Soybean stem blight pod rot pathogen Diaporthephaseolorumvar.sojae and soybeans Phomopsis species Phomopsis rot pathogen longicolla.

3.2 Identification of principle

According to molecular biological characteristics of soybean northern and southern stem canker and real-time PCR principles, including real-time application related instruments fluorescence Light PCR instrument, such as soybean northern and southern stem canker were identified.

4.1 Instrument appliances

Ovens, autoclaves, microscopes, dissecting microscope, the balance (the amount of sense 1/100; 1/10000), mortar, shaker, water bath, ice machine, water Instrument, Vortex, desktop centrifuges, nucleic acid protein analyzer, high-speed refrigerated centrifuge, vacuum drained instrument, refrigerator, clean benches, real-time fluorescence

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