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INDUSTRY STANDARD OF THE PEOPLE'S REPUBLIC OF CHINA

SN/T 3439-2012

Detection and identification of zucchini green mottle mosaic virus

小西葫芦绿斑驳花叶病毒检疫鉴定方法

(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. Xiamen, People's Republic of China Exit Inspection and Quarantine, Chinese Academy of Inspection and Quarantine, the People's Republic of China Exit Inspection and Quarantine and the State of Yunnan.

1 Scope

This standard specifies the serological and molecular biology methods Zucchini green mottle mosaic virus quarantine identified.

This standard applies to quarantine may carry Zucchini green mottle mosaic virus cucurbit crops seeds and seedlings.

Principle 2

2.1 Taxonomic status

Name. zucchinigreenmottlemosaicvirus Abbreviation. ZGMMV Category. Tobacco mosaic virus genus (Tobamovirus)

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2.2 Based quarantine and identification

Antigenic properties and characteristics of the genome is identified on the basis of the quarantine. Biological characteristics and genomic features, see Appendix A.

3.1 Instruments and facilities

Enzyme-linked detector, electronic balance (inductance 0.0001g), qualitative PCR, electrophoresis, tank, gel imaging system, constant temperature water bath, Cryogenic refrigerators, ordinary refrigerator, centrifuge; micropipette (2.5μL, 10μL, 20μL, 100μL, 200μL, 1000μL); ELISA plate, Mortar or the like; pest control greenhouse.

3.2 Reagents

Enzyme-linked immunosorbent assay reagent (see Appendix B), RT-PCR detection reagent (see Appendix C).

Preparation of test sample 4

4.1 Preparation of seed samples

Deformity picked immature seeds sown in sterilized soil, placed in a greenhouse pest control, to be grow 3-4 true leaves, the plants will show symptoms of knitting no separate testing, did not show symptoms of the plant grouping (10 per group) and numbered, collected leaves into 2 parts, one for the enzyme needed Linked immunoassay and molecular testing.

4.2 Seed Sample Preparation

Symptoms (such as blade malformation, mosaic, mottled, etc.) number of seedlings individually tested. No symptoms packet inspection, and testing grouping method 4.1 the same way.

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