

ICS 07.080
CCS B 16

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**INDUSTRY STANDARD OF THE
PEOPLE'S REPUBLIC OF CHINA**

SN/T 2342-2009

Quarantine identification of apple stem grooving virus

苹果茎沟病毒检疫鉴定方法

(English Translation)

Issued on: July 7, 2009

Implemented on: January 16, 2010

Issued by: General Administration of Customs

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Foreword

This standard appendix B, Appendices C and D are normative appendices, Appendix A is an information appendix.

This standard is proposed and managed by the National Certification and Accreditation Administration Committee.

This standard was drafted. People's Republic of China Fujian Exit Inspection and Quarantine, Ningbo Entry-Exit Inspection and Quarantine of People's Republic of China Bureau, Chinese Academy of Inspection and Quarantine, Shihezi University, People's Republic of China Beijing Entry-Exit Inspection and Quarantine Bureau, People's Republic of China Black Longjiang CIQ.

1 Scope

This standard specifies the phytosanitary Apple stem grooving virus (Applestemgroovingvirus) of quarantine and identification methods.

This standard applies to seedlings of apples, pears, etc., quarantine and identification of other propagating material apple stem grooving virus.

Principle 2

2.1 Scientific name and taxonomic status

Name. Applestemgroovingvirus Abbreviation. ASGV

2.2 Propagation mode

See Appendix A.

2.3 Antigenic properties

Similar leaf spot virus (Appplechloroticleafspotvirus) particle morphology, but are not related serologically.

2.4 Viral genome

Genome sense single-stranded RNA 6496nt containing two ORF, ORF1 which encodes a 241kDa produces poly eggs White, and then cut into a number of product features, the coat protein (CP) at the C-terminus; of ORF2 encoding produces a 36kDa protein movement (MP).

MP and CP genes of the virus gene is relatively conservative, and more conservative CP gene.

2.5 Identification based

According to Apple stem grooving virus with moderate immunogenicity, antiserum can be prepared virus, CP gene conservative and strong, and can be designed primers Probes and other characteristics, double-antibody sandwich enzyme-linked immunosorbent assay, reverse transcription - polymerase chain reaction and real-time fluorescent RT-PCR reaction can be made Work for the quarantine inspection and identification of the virus basis.

3 Reagents and solutions

Unless otherwise specified, all test reagents were analytical grade.

3.1

ELISA reagents. See Appendix B, Section B. Chapter 1.

3.2

The total RNA extraction reagent. TrizolReagent.

3.3

RT-PCR step reaction reagents. Ready-to-GoRT-PCRBeads.

3.4

chloroform.

3.5

isopropanol.

3.6 75% ethanol.

3.7

ethanol.

3.8

RNase-free water. double distilled water or commodities by 0.1% DEPC (diethylpyrocarbonate) treated RNase-free water.

3.9

reverse transcriptase and buffers.

3.10

ribonuclease inhibitor.

3.11

dNTPs. containing dATP, dCTP, dGTP, dTTP.