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INDUSTRY STANDARD OF THE PEOPLE'S REPUBLIC OF CHINA

SN/T 3581-2013

Detection and identification of Monilinia fructicola(Winter)Honey with real-time fluorescence PCR

美澳型核果褐腐病菌实时荧光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 Structure does not bear 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 United States and Australia type stone fructicola [Moniliniafructicola (Winter) Honey] Application TaqManMGB Probe detection method of real-time PCR.

This standard applies to the United States and Macao type stone fructicola hosts include stone fruits, and Chaenomeles, Crataegus, Eriobotrya preach with US the molecular detection of pathogen type O drupe fructicola on the host.

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.

Laboratory use specifications and test methods GB/T 6682 Analysis SN/T 1193 genetic testing laboratory technical requirements SN/T 1871 American-Australian-type drupe

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fructicola quarantine and identification methods Principle 3

3.1 Status classification and morphology of bacteria

According to SN/T 1871.

3.2 Identification of principle

According to the United States and Macao type stone fructicola its approximate species including stone fruit brown rot bacteria and European pome fruit brown rot bacteria interval transcribed region of the gene Different design specific primers and probes, application-related instruments, including the real-time PCR instrument, such as the United States Ao stone type brown rot germs Real-time PCR for identification.

4 Major appliances, instruments and reagents

4.1

The main instruments and appliances Oven, Autoclave, Balance (a sense of volume 1/100,1/10000), mortar, shaker, water bath, ice machines, water meter, Vortex, Tabletop centrifuge, nucleic acid protein analyzer, high-speed refrigerated centrifuge, vacuum drained instrument, refrigerator, clean benches, real-time PCR instrument, trace Pipettes (0.5μL, 2μL, 10μL, 20μL, 100μL, 200μL, 1000μL), centrifuge tubes (0.2mL, 1.5mL, 2.0mL), Tip head (0.1μL ~ 10μL, 5μL ~ 200μL, 100μL ~ 1000μL), test tubes.

4.2 Reagents

CTAB extract, Tris saturated phenol, chloroform, isoamyl alcohol, isopropanol, ethanol, RNA enzymes, liquid nitrogen, real-time PCR reactions Buffer.

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