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INDUSTRY STANDARD OF THE PEOPLE'S REPUBLIC OF CHINA

SN/T 3557-2013

RT-PCR and real time RT-PCR detection methods of yellow fever virus

黄热病毒RT-PCR和实时荧光RT-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.

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

This standard was drafted. People's Republic of China Guangdong CIQ.

1 Scope

This standard specifies the border crossings to detect yellow fever biosafety requirements, specimen collection, transport and storage, processing specimens, yellow fever Poison conventional RT-PCR, and real-time RT-PCR detection method.

This standard applies to the border port of entry and exit media personnel mosquitoes carry yellow fever virus detection or molecular biology.

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.

GB 19489 General requirements for laboratory biosafety Human infection of pathogenic microorganisms directory (Ministry of Health)

3 Abbreviations

The following abbreviations apply to this document.

RT-PCR. reverse transcription - polymerase chain reaction Real-time fluorescent RT-PCR. Real-time fluorescence reverse transcription - polymerase chain reaction when the number

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of cycles of each reaction tube fluorescent signal reaches the threshold set by experienced. Ct values RNA. ribonucleic acid FAM. FAM fluorescent dye, a fluorescent reporter group

4 Terms and Definitions

The following terms and definitions apply to this document.

Yellow fever yelowfever by the Flaviviridae family, genus flavivirus yellow fever virus (yelowfevervirus; YFV) acute infectious disease caused by Aedes aegypti (Aedes aegypti) it is the major media, is prevalent in Africa and Central and South America, cases March to April more. Clinical features have made Heat, severe headache, jaundice, bleeding, and proteinuria.

Yellow fever virus yelowfevervirus Belongs to the Flaviviridae Flavivirus virus particles are spherical, the diameter of 37nm ~ 50nm, lipoprotein envelope surrounding the outside, coated surface There are spikes. Viral genome is a single positive-strand RNA, relative molecular mass of about 3.8 x 106, about 11kb.

5 Bio-safety requirements

In accordance with GB 19489 and "human infectious pathogens List" request is required for biosafety yellow fever virus related materials as follows.

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