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INDUSTRY STANDARD OF THE PEOPLE'S REPUBLIC OF CHINA

SN/T 3884-2014

Detection of tick-borne novel Bunyavirus by SYBR Green PCR method at frontier port

国境口岸蜱类携带新布尼亚病毒SYBR Green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.

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

This standard was drafted. People's Republic of China Beijing Entry-Exit Inspection and Quarantine Bureau of Military Medical Sciences, People's Republic of China agriculture Ministry of Planning and Design Institute.

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Border crossings ticks carrying the new Bunia virus SYBRGreen PCR assay method

1 Scope

This standard specifies the real-time quantitative RT-PCR method to detect new Bunia virus tick border crossings, including specimen collection, handling, Testing procedures, the results of the determination and reporting.

This standard applies to border crossings ticks carry severe fever with thrombocytopenia syndrome Bunia virus laboratory.

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 SN/T 1293 ticks frontier port monitoring procedures WS233 Microbiological and Biomedical Laboratories Biosafety

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Common Criteria Human infection of pathogenic microorganisms directory People's Republic of China Ministry of Health, 2006

3 Terms and Definitions

The following terms and definitions apply to this document.

New Bunia virus newbunyavirus Bunia severe fever with thrombocytopenia syndrome virus (Severefeverwiththrombocytopeniasyndromebunyavirus, SFTSV), referred to as the new Bunia virus, China is a newly discovered virus Bunia, sandfly virus belongs to the Bunyaviridae genus, sub-section for the Segment negative strand RNA viruses. Virus particles are spherical, the diameter of 80nm ~ 100nm, the outer lipid envelope, the surface of the spinous process. The viruses that cause from Emerging Infectious Diseases severe fever with thrombocytopenia syndrome, major clinical manifestations of fever, thrombocytopenia and neutropenia, and gastrointestinal symptoms Multiple organ dysfunction.

SYBRGreen fluorescence quantitative PCR After the PCR reaction, fluorescent dye SYBR added in excess, the specific incorporation of fluorescent dye SYBR DNA duplexes, emission Fluorescence signal without the incorporation of the chain SYBR dye molecules do not emit any fluorescent signal, thereby ensuring an increase in fluorescence signal and the PCR Increase product fully synchronized.

4 Abbreviations

The following abbreviations apply to this document.

4.1

RT-PCR reverse transcription polymerase chain reaction.
(Reversetranscriptionpolymerasechainreaction)

4.2

Ct cycle threshold value for each reaction tube fluorescent signal reaches the set threshold number of cycles experienced. (Cyclethreshold)

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