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INDUSTRY STANDARD OF THE PEOPLE'S REPUBLIC OF CHINA

SN/T 3739-2013

Detection method for tick-borne encephalitis virus at frontier ports. Real-time fluorescence RT-PCR

国境口岸森林脑炎病毒检测方法 实时荧光RT-PCR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. Tianjin People's Republic of China Entry-Exit Inspection and Quarantine of Jilin People's Republic of China Bureau of Shanghai Jiang Biological Technology Co., Ltd..

1 Scope

This standard specifies the border ports of entry and exit personnel or tick-borne encephalitis virus carrying real-time fluorescent RT-PCR detection, including the detection of Like, specimen collection and handling, testing procedures, the results of determination.

This standard applies to the border port of entry and exit personnel or tick-borne encephalitis virus carrying laboratory tests.

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.

Human infection of pathogenic microorganisms directory (Department of Health 2006)

3 Terms and Definitions

The following terms and definitions apply to this document.

Tick-borne encephalitis virus Russian spring-summer encephalitis virus Russianspring-summerencephalitisvirus Flaviviridae Flavivirus member, single-strand RNA

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viruses, mRNA full length 10886bp. The virus occurs According to school system Europe is divided into subtypes, the Far East and Siberia subtype subtypes three subtypes. The virus caused encephalitis is a natural focal disease.

The virus reservoir host of many, the media mainly ticks, usually caused by susceptible people carrying the virus after being bitten by a tick disease.

Real-time fluorescent RT-PCR real-timeRT-PCR There are a variety of real-time fluorescent RT-PCR method, this standard uses a TaqMan hydrolysis probe method, the principle is the conventional RT-PCR on the basis of adding a specific fluorescent probe which is an oligonucleotide, the two sides were marked with a fluorescent reporter group and a A fluorescence quenching group. When the probe is intact, the fluorescence signal emitted by the reporter group is absorbed by the quencher, PCR amplification using Taq enzyme 5'-3 'exonuclease activity of the enzyme hydrolysis probes, the fluorescent reporter group and fluorescence quenching group separation, the fluorescence monitoring system can receive the fluorescence signal. Each through a PCR cycle, the fluorescence signal is also the same fragment, there is a coincident index increased process signals Nucleic acid content is proportional to the intensity of the detected object, it can calculate the amount of detected objects according to a mathematical model.

4 Abbreviations

The following abbreviations apply to this document.

BHQ. black hole quencher (blackholequencher) Ct values. cycle threshold values, each reaction tube fluorescent signal cycle number (cyclethreshold) set threshold experienced DEPC. diethyl pyrocarbonate (diethylpyrocarbonate) FAM. 6- carboxy-fluorescein, a fluorescent reporter group (6-carboxy-fluorescein)

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