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INDUSTRY STANDARD OF THE PEOPLE'S REPUBLIC OF CHINA

SN/T 3565-2013

Detection of Brucella by up-converting phosphor technology at frontier ports

国境口岸布鲁氏菌上转发光检测方法

(English Translation)

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Preview: page 1 of 3 shown, 4 in the full document. Complete English PDF, instant download:
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Table of Contents

Foreword

1 Scope

2 Normative references

3 Terms and Definitions

4 Detects objects

5 Sample collection

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 Shanghai Entry-Exit Inspection and Quarantine Bureau, the PLA Military Academy of Medical Sciences of microorganisms Institute of Epidemiology, People's Republic of China Hebei Exit Inspection and Quarantine.

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The optical detection method forwarded on Brucella border crossings

1 Scope

This standard specifies the method to forward light detection object detection method and the results are reported on Brucella ports of entry.

This standard applies to border crossings rapid screening tests Brucella.

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.

SN/T 1861-2007 ports of entry to public health emergencies emergency procedures General WS269 brucellosis diagnostic criteria

Preview: page 2 of 3 shown, 4 in the full document. Complete English PDF, instant download:
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3 Terms and Definitions

The following terms and definitions apply to this document.

Brucella Brucella

A gram-negative, intracellular parasites, can cause acute and chronic infections and a variety of animals. Humans and animals caused by the Brucella Comorbid infection, allergic disease called brucellosis. Brucella can cause people and livestock and wild mammals worldwide Infection, also be applied to pathogenic biological warfare agents one.

Forwarding on optical technology up-convertingphosphortechnology; UPT Synthesis of rare earth elements on the use of forward light material (up-convertingphosphor, UCP) crystal particles as a biological tracer, into and immune chromatography, biosensor technology, developed from a new type of highly sensitive biological detection technologies. UCP particles have a unique the forwarding light phenomenon, low-energy can be excited by infrared light, visible light emission of high-energy, whereby light is called the forwarded material. Such particles UCP Unique luminescent properties, such as their biological tracer forwarding optical technology in the detection signal can be ruled out outside interference, and thus with Have higher detection sensitivity and reliability.

4 Detects objects

4.1

frontier port suspected of being infected blood Brucella staff, other body fluids and excreta.

4.2

Brucella border crossings have suspected contaminated food, drinking water, luggage, parcels, transport and others suspected of being contaminated border opening Shore workplace and environmental samples and the like.

4.3

Frontier Ports suspected Brucella infection of the spleen and livestock carcasses and other small animals, biological samples.

5 Sample collection

Sample collection to perform SN/T 1861-2007 in Appendix E.

Preview: page 3 of 3 shown, 4 in the full document. Complete English PDF, instant download:
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