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Detection method for Bacillus anthracis by gene suspension array at frontier ports

国境口岸炭疽芽胞杆菌基因悬浮芯片检测方法

(English Translation)

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Preview: page 1 of 3 shown, 7 in the full document. Complete English PDF, instant download:
https://chinastandards.org/standards/sn-t-3267-2012

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Table of Contents

Foreword

1 Scope

2 Normative references

3 Terms and Definitions

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 Institutions do not assume the responsibility to identify these patents.

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

This standard was drafted. Chinese Academy of Inspection and Quarantine, Chongqing, People's Republic of China Exit Inspection and Quarantine, the People's Republic of China Exit Inspection and Quarantine and the State Hebei.

1 Scope

This standard specifies the border crossings suspicious powder samples were suspended in Bacillus anthracis gene chip detection methods and procedures.

This standard applies to border crossings suspicious powder samples in the detection of Bacillus anthracis.

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 laboratory biosafety applicable requirements.

Human infection of pathogenic microorganisms directory (Ministry of Health)

3 Terms and Definitions

The following terms and definitions apply to this document.

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Bacillus anthracis Bacillusanthracis Bacillus anthracis belonging to the genus Bacillus, anthrax is an acute infectious disease pathogens, as thick Gram-positive bacteria, with a strong Pathogenicity, infectivity and viability. Humans through direct or indirect contact with Bacillus anthracis cause skin, lung and intestinal infections, Cause cutaneous anthrax, pulmonary anthrax, and intestinal anthrax. Because once used as a germ warfare agents, especially the 2001 US terrorist attacks of anthrax After Bacillus anthracis more closely watched around the world.

Gene chip genesuspensionarray suspension Microarray probe molecule is fixed on the support obtained after the sample molecules labeled hybridization, the probe molecule by detecting hybridization Signal strength, and then get the number and sequence information of the sample molecules.

Suspension chip group in recent years, the emergence of a new multi-index can qualitatively the same time, the new chip technology quantitative analysis, a both to ensure the quality of information, but also provide a new generation of molecular diagnostic technology platform relatively high throughput. Suspension array system made up of many different micro Ball as the main matrix constituent, different probe molecules immobilized on each microsphere, in order to distinguish between different probes, each probe for a fixed Spherical matrix comes with a unique color numbers of these microspheres suspended in a liquid phase system, to form a chip suspension system.

Fluorescence intensity median medianfluorescenceintensity, MFI Instruments detection result, a number that reads the statistics mean microsphere group 100 or more each microsphere signal strength.

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