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INDUSTRY STANDARD OF THE PEOPLE'S REPUBLIC OF CHINA

SN/T 3741.1-2013

Detection for pathogens of rodents at frontier ports. Part 1: Detection for pathogenic leptospira

国境口岸鼠类携带病原体检测方法 第1部分:致病性钩端螺旋体PCR检测方法

(English Translation)

Issued on: November 6, 2013 **Implemented on: June 1, 2014**

Issued by: General Administration of Customs

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Foreword

SN/T 3741 "border crossings detection of pathogens carried by rats," is divided into two parts.

--- Part 1. pathogenic Leptospira PCR detection method;

--- Part 2. F. tularensis bacteria PCR detection method.

This section SN/T Section 13741 of.

This section drafted in accordance with GB/T 1.1-2009 given rules.

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

This section drafted by. China Inspection and Quarantine Science Research Institute, People's Republic of China Fujian Exit Inspection and Quarantine, the People's Republic of China Exit Inspection and Quarantine and the State of Liaoning.

1 Scope

This section SN/T 3741 provisions of the frontier port rodents sample collection, processing methods, PCR detection of pathogenic Leptospira square Methods and results determined.

This section applies to border crossings to detect pathogens carried by rats.

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

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3 Terms and Definitions

The following terms and definitions apply to this document.

Rodent rodents

And rodent-borne diseases associated Rodents (including rodents, lagomorphs and insectivore animals).

Leptospira Leptospira Leptospira short, slender cells are a large, dense spiral, bent at one or both ends of the spiral body hook, a small portion of pathogenic Leptospira can cause human and animal leptospirosis (referred leptospirosis). Leptospirosis is a worldwide popular as a zoonosis, the main source of infection is rodents and pigs. China has 28 provinces, municipalities and autonomous regions found the disease. In addition to a very few human infections from laboratory infection, are due to contact with infected animals is discharged to the environment caused by pathogenic Leptospira.

4 Requirements

Rodents carry pathogen detection should be carried out in the biosafety level 2 or higher laboratory (BSL-2) inside. The laboratory shall follow GB 19489 Dui Biosafety Level 2 or higher laboratory bio-safety requirements.

5 Experimental equipment

The main instrument of this method are as follows.

--- High-speed desktop refrigerated centrifuge;

--- Organization Mills;

---Biological safety cabinets;

--- Electrophoresis;

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