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INDUSTRY STANDARD OF THE PEOPLE'S REPUBLIC OF CHINA

SN/T 3306.4-2012

Loop-mediated isothermal amplification detection method at frontier port. Part 4: Legionella

国境口岸环介导恒温扩增（LAMP）检测方法 第4部分：嗜肺军团菌

(English Translation)

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Foreword

SN/T 3306 "frontier port loop-mediated isothermal amplification (LAMP) detection method" is divided into four parts.

--- Part 1. Yersinia pestis;

--- Part 2. toxigenic Vibrio cholerae;

--- Part 3. Shigella;

--- Part 4. Legionella pneumophila.

This section SN/T 3306 Part 4.

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. Release mechanism of the present document does not assume responsibility for the identification of these patents.

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

1 Scope

SN/T 3306 provisions of this part of the border crossings to detect environmental water samples Legionella pneumophila loop mediated isothermal nucleic acid amplification (LAMP) method.

This section applies to border crossings Legionella pneumophila screening test.

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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.

Laboratory use specifications and test methods GB/T 6682 Analysis GB 19489 General requirements for laboratory biosafety Applications WS/T 230-2002 clinical diagnosis of the polymerase chain reaction (PCR) technology SN/T 2528 testing for legionella in drinking water

3 Abbreviations

The following abbreviations apply to this document.

Betaine. Betaine

Bst enzyme [BstDNApolymerase (largefragment)]. BstDNA polymerase (large fragment) DNA (deoxyribonucleicacid). DNA dNTP (deoxyribonucleosidetriphosphate). deoxynucleotide triphosphate EDTA (ethylenediaminetetraaceticacid). ethylenediaminetetraacetic acid LAMP (loop-mediatedisothermalamplification). loop-mediated isothermal amplification TritonX-100. Polyethylene glycol octylphenyl ether

4 Biosecurity measures

In order to protect the safety of laboratory personnel to ensure the smooth progress of the test, it should be available through the Biosafety training and have qualified staff Detection of Legionella pneumophila, and waste all cultures should be performed with reference to the relevant provisions of GB 19489.

5 Anti-pollution measures

Prevent pollution measures should comply with WS/T 230's.

6 Technology Overview

According to specific sequences within the gene of Legionella pneumophila design specific primers, outside each primer pair or additional loop primer pair special

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