Chinastandards.org

CCS C62

SN

INDUSTRY STANDARD OF THE PEOPLE'S REPUBLIC OF CHINA

SN/T 3306.3-2012

Loop-mediated isothermal amplification detection method at frontier port. Part 3: Shigella

国境口岸环介导恒温扩增（LAMP）检测方法 第3部分：志贺氏菌

(English Translation)

Issued on: December 12, 2012 **Implemented on: July 1, 2013**

Issued by: General Administration of Customs

Preview: page 1 of 3 shown, 5 in the full document. Complete English PDF, instant download:
https://chinastandards.org/standards/sn-t-3306-3-2012

Chinastandards.org

Table of Contents

Foreword
1 Scope
2 Normative references
3 Abbreviations
4 Biosecurity measures
5 Anti-pollution measures
6 Technology Overview

Foreword

SN/T 3306 "border crossings ring mediated isothermal diffusion (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 3.

This section 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 loop-mediated isothermal nucleic acid stool sample to detect suspected infectious frontier port of Shigella bacteria Amplification (LAMP) method.

This section applies to screening assays border crossings Shigella bacteria.

Preview: page 2 of 3 shown, 5 in the full document. Complete English PDF, instant download:
https://chinastandards.org/standards/sn-t-3306-3-2012

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 WS287-2008 bacillary and amoebic dysentery diagnostic criteria

3 Abbreviations

The following abbreviations apply to this document.

Bst enzyme. BstDNApolymerase (largefragment), BstDNA polymerase (large fragment).

DNA. deoxyribonucleicacid, DNA.

dNTP. deoxyribonucleosidetriphosphate, deoxynucleoside triphosphates.

LAMP. loop-mediatedisothermalamplification, loop-mediated isothermal amplification.

4 Biosecurity measures

In order to protect the safety of laboratory personnel, shall be through the biosafety training and qualified staff to detect Shigella, all training Yang and waste 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 design Shigella specific primers, outside each primer pair or additional loop primer pair specific A separate area on the recognition of the target sequence using an enzyme Bst start cycling strand displacement reaction, start complementary strand synthesis in specific gene sequences in Complementary sequence cycle is formed on the same chain had a lot of broccoli stem structure ring - ring DNA mixture; dNTP precipitated from pyrophosphate

Preview: page 3 of 3 shown, 5 in the full document. Complete English PDF, instant download:
https://chinastandards.org/standards/sn-t-3306-3-2012