

**INDUSTRY STANDARD OF THE
PEOPLE'S REPUBLIC OF CHINA**

SN/T 3306.8-2017

**Loop-mediated isothermal amplification detection method at
frontier port--Part 8: Chikungunya virus**

国境口岸环介导恒温扩增(LAMP)检测方法 第8部分：基孔肯雅病毒
(English Translation)

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Foreword

SN/T 3306 "Land of Atmospheric Port mediated Constant Temperature Amplification (LAMP) Detection Method" is divided into 14 parts.

- Part 1. *Yersinia pestis*;
- Part 2. Toxin producing *Vibrio cholerae*;
- Part 3. *Shigella*;
- Part 4. *Legionella pneumophila*;
- Part 5. *Brucella*;
- Part 6. Yellow fever virus;
- Part 7. Monkeypox virus;
- Part 8. Chikungunya virus;
- Part 9. *Mycobacterium tuberculosis*;
- Part 10. *Bacillus anthracis*;
- Part 11. *Vibrio parahaemolyticus*;
- Part 12. *Campylobacter jejuni*;
- Part 13. *Plasmodium*;
- Part 14. *E. coli* 0157. H7.

This part is the eighth part of SN/T 3306.

This part is drafted in accordance with the rules given in GB/T 1.1-2009.

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

This section drafted by. Guangdong Entry-Exit Inspection and Quarantine Bureau of the People's Republic of China, Guangdong International Travel Health Care Center, the Chinese people and the National Headquarters Entry-Exit Inspection and Quarantine Bureau.

1 Scope

This part of SN/T 3306 stipulates the infection of entry and exit personnel at border ports and the mosquito-mediated transmission of Chikungunya virus at the port.

Amplification (LAMP) nucleic acid testing procedures, including sample collection, processing, testing procedures, methods, results determination and reporting.

This section applies to laboratory rapid testing of infections of people entering and leaving the port and carrying the Chikungunya virus in mosquitoes.

2 Normative references

The following documents are indispensable for the application of this document. For dated references, only dated versions apply to this article.

Pieces. For undated references, the latest edition (including all modified versions) applies to this document.

GB 19489 General requirements for laboratory biosafety SN/T 2300-2009 Detection method for mosquitoes carrying Chikungunya virus at border ports SN/T 3560-2013 Multiple real-time fluorescence of yellow fever virus, dengue virus, chikungunya virus and West Nile virus at border ports RT-PCR detection method List of pathogenic microorganisms transmitted from humans [Weike Jiaofa (2006) No. 15]

3 Terms and definitions

The following terms and definitions apply to this document.

Chikungunya virus A virus belonging to the genus Actinovirus of the togaviridae, whose genome is a single-strand positive-strand RNA. The virus particles are spherical, enveloped, and evenly straight.

The diameter is 42 nm, the relative molecular mass is 4.3×10^8 , and the sedimentation coefficient is 46S. The virus can cause human Chikungunya fever, the main clinical table it is now fever, joint pain, rash and mild bleeding.

Loop-mediated isothermal amplification assay

loop-mediated isothermal amplification detection method A new method for thermostatic nucleic acid amplification, which is characterized by designing four specific primers for six regions of the target gene, using a strand replacement the DNA polymerase can be

incubated at isothermal conditions (about 63 ° C) for 30 min to 60 min to complete the nucleic acid amplification reaction. Compared with conventional PCR the process of thermal denaturation, temperature cycling, electrophoresis, and ultraviolet observation of the template is not required.

4 Abbreviations

The following abbreviations apply to this document.

LAMP. Loop-mediated isothermal amplification F3. LAMP reaction forward outer primer (Forwardouterprimer) B3. LAMP reaction reverse outer primer (Backwardouterprimer) FIP. LAMP reaction forward primer (Forwardinnerprimer) BIP. LAMP reaction reverse internal primer (Backwardinnerprimer)