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INDUSTRY STANDARD OF THE PEOPLE'S REPUBLIC OF CHINA

SN/T 3566-2013

Nucleic acid extraction method based on membrane filtration

滤膜抽滤核酸提取方法

(English Translation)

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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. Tianjin People's Republic of China Exit Inspection and Quarantine.

1 Scope

This standard specifies the method of operating membrane filtration rapid nucleic acid extraction technology.

This standard applies to the inspection and quarantine agencies for extraction of nucleic acids of pathogens.

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 SN/T 2102.3 foodborne pathogens PCR detection Technical specification - Part 3. Requirements for sample preparation method for qualitative detection

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3 Abbreviations

The following abbreviations apply to this document.

DNA. deoxyribonucleic acid (deoxyribonucleicacid) RNA. ribonucleic acid (ribonucleicacid) EDTA. ethylenediaminetetraacetic acid (eathylenediaminetetraaceticacid) Tris-HCl. Tris hydrochloride (trishydrochloride) DEPC. diethyl pyrocarbonate (diethypyrocarbonate) RNase. ribonucleic acid hydrolases RNasin. ribonuclease inhibitor

4 Biosecurity measures

Staff in order to protect the safety of laboratory personnel, in accordance with the relevant provisions of GB 19489, and should have the relevant qualifications for actual Inspection operations. All waste should be implemented in accordance with the relevant provisions of GB 19489.

5 Principle of the method

Rapid filter method of nucleic acid extraction technology provides a method for rapid extraction of nucleic acids from a variety of biological samples. Membrane filtration nucleic acid extraction Utilizing filter means is capable of specifically adsorbing a nucleic acid (DNA/RNA) characteristics, after the samples are lysed using a biological sample into the apparatus Line filtration, adsorption, washing and elution, a one-time extraction of nucleic acids. By this standard ion concentration and pH value of the solution to control the nuclear membrane filtration Acid extraction apparatus of adsorption and elution efficiency of nucleic acids.

This method is suitable for food, food contact surfaces (including hands personnel, equipment, utensils and other direct food contact surfaces) and pathogenic biological samples Nucleic acids (DNA/RNA) is extracted. When extracting DNA/RNA, membrane filtration generic nucleic acid extraction apparatus, but the extraction of RNA, Supplies and eluent used requires special treatment in order to eliminate or reduce the degradation of RNA RNA enzymes. Since the entry of suspicious people

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