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# INDUSTRY STANDARD OF THE PEOPLE'S REPUBLIC OF CHINA

# SN/T 3196-2012

## Determination of pathogenic vibrio in aquatic product. Automatic detection system for screening pathogenic bacteria

水产品中致病性弧菌检测 全自动病原菌检测系统筛选法

**(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. People's Republic of China Fujian Entry-Exit Inspection and Quarantine Zhanjiang, People's Republic of China Bureau, People's Republic of China Shanghai Entry-Exit Inspection and Quarantine, Ningbo People's Republic of China.

## 1 Scope

This standard specifies the aquatic Vibrio cholerae, Vibrio parahaemolyticus and Vibrio vulnificus screening methods.

This standard applies to Vibrio cholerae in aquatic products, rapid screening detection of Vibrio parahaemolyticus and Vibrio vulnificus.

## 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/T 4789.7 Microbiological examination of food hygiene Vibrio parahaemolyticus test Laboratory use specifications and test methods GB/T 6682 Analysis GB/T 27403 laboratory quality control of food molecular biology standardized testing SN/T 0173 Importers and



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Vibrio parahaemolyticus in food testing methods SN/T 1022 Vibrio cholerae in food import and export inspection methods FDA/BAMChapter9 FDA Microbiological Analysis Handbook Chapter 9 Vibrio NMKLNo.156 Nordic Food Association food pathogenic Vibrio qualitative and quantitative detection methods

## 3 Abbreviations

The following abbreviations apply to this document.

### 3.2 PCR (polymerasechainreaction). Polymerase chain reaction

Principle 4

BAX automated pathogen detection system is the application of PCR technology to detect pathogens. Required for the reaction primer, DNA polymerase, and de Nucleotides and other oxygen are combined to become a stable, dry tablets and loaded PCR tubes. Each PCR reagent tablets contain a fluorescent dye Material, the dye is capable of binding to double-stranded DNA, and the fluorescence signal emitted by the excitation light. In the detection process, BAX system by measuring the fluorescence Changes in the signal, measurement data is analyzed, thereby determining the results.

## 5 Reagents

**5.1**

experimental water should comply with GB/T 6682 in a water specifications.

**5.2**

Alkaline peptone water (APW), see A.1.

**5.3**

BAX system of Vibrio cholerae/parahaemolyticus/vulnificus the PCR detection kit, 2 °C ~ 8 °C place, see A.2.



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