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INDUSTRY STANDARD OF THE PEOPLE'S REPUBLIC OF CHINA

SN/T 3152-2012

Determination of diarrheagenic Escherichia coli in food for export. GeneChip method

出口食品中致泻大肠埃希氏菌检测方法 基因芯片法

(English Translation)

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3.1 Terms and Definitions

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 Beijing Entry-Exit Inspection and Quarantine Bureau, Tianjin Biochip Technology Co., Ltd., China Tianjin People's Republic of Exit Inspection and Quarantine, Beijing Academy of Inspection and Quarantine.

1 Scope

This standard specifies the foods cause diarrhea Escherichia coli (intestinal pathogenic Escherichia coli, enterotoxigenic Escherichia coli, intestinal Invasive Escherichia coli, enterohemorrhagic Escherichia coli, O157 serotype of Escherichia coli) gene chip detection methods.

This standard applies to foods cause diarrhea detection of Escherichia coli.

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 4789.6 Microbiological examination of food hygiene cause diarrhea Escherichia coli test Laboratory use specifications and test methods GB/T 6682 Analysis GB 19489 General requirements for laboratory biosafety GB/T 27403 laboratory quality control of food molecular biology standardized testing SN/T 1193 genetic testing laboratory technical requirements

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3.1 Terms and Definitions

The following terms and definitions apply to this document.

3.1.1

Diarrhea caused by Escherichia coli diarrheagenicEscherichiacoli the bacteria can cause diarrhea Escherichia coli. Common food-induced diarrhea include Escherichia coli intestinal pathogenic E.

Escherichia coli, enterotoxigenic Escherichia coli, intestinal invasive Escherichia coli and enterohemorrhagic Escherichia coli 4 categories.

3.1.2

Intestinal pathogenic Escherichia coli enteropathogenicEscherichiacoli Class capable of causing a host cell adhesion and wipe injury, and there Shiga toxin-producing Escherichia coli, causing the host cell adhesion and key genes wipe injury is eae gene encoding Lee pathogenicity island close Pigment.

3.1.3

Enterotoxigenic Escherichia coli enterotoxigenicEscherichiacoli A class capable of secreting the thermal stability or thermal instability enterotoxin Escherichia coli, according to the different thermal stability to enterotoxin Source can be divided into heat-stable enterotoxin swine and humanized two types of heat-stable enterotoxin, encoding genes were stap and stah, heat Instability enterotoxin encoding genes lt. Two kinds of enterotoxin in enterotoxigenic Escherichia coli can be alone and to be simultaneously exist.

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