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INDUSTRY STANDARD OF THE PEOPLE'S REPUBLIC OF CHINA

SN/T 3307-2012

PCR method of adenovirus for foodborne disease at frontier port

口岸食源性疾病腺病毒PCR检测方法

(English Translation)

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Foreword

This standard was drafted in accordance with GB/T 1.1-2009 given rules.

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

This standard was drafted. People's Republic of China Tianjin Entry-Exit-Entry Inspection and Jiangxi People's Republic of China Quarantine Bureau.

1 Scope

This standard specifies the port foodborne illness adenovirus type 40 and type 41 PCR detection method for determining and reporting the results and biosecurity Measures.

This standard applies to the port inspection and quarantine authorities of foodborne illness adenovirus type 40 and type 41 detection and reporting.

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 6682 Water Analysis Laboratory specifications and test methods GB 19489 General requirements for laboratory biosafety SN/T 1193 genetic testing laboratory technical requirements

3 Terms and Definitions

The following terms and definitions apply to this document.

Adenovirus Families belonging to adenovirus, non-enveloped double-stranded DNA virus, based on biological and genetic characteristics, a total of 51 serotypes, belonging to A ~ F6

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months Subgenus, F subgenus include adenovirus type 40 and type 41, known as intestinal adenovirus, intestinal adenovirus in children is an important food-borne diarrheal disease virus the original body. Virus particles are spherical, the diameter of 70nm ~ 90nm, virus-like structure substantially similar to the communications satellite. Adenovirus pH and temperature Tolerate a wide range of lipid solvents have a strong resistance to ultraviolet radiation 30min or 56 °C, 30min can be inactivated.

4 Device

4.1
high-speed refrigerated centrifuge. maximum centrifugal force 13000g.

4.2
PCR amplification.

4.3
electrophoresis.

4.4
air bath shakers.200r/min.

4.5
gel imaging system.

4.6
Adjustable Pipette. 0.1μL ~ 2μL, 1μL ~ 10μL, 20μL ~ 100μL, 100μL ~ 1000μL.

4.7
water bath.

4.8
cryogenic freezer. -20 °C and -80 °C.

4.9
homogenizer.

4.10
icemaker.

4.11
Autoclave.

4.12
biosafety cabinet.

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