

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

SN/T 4624.9-2016

**Methods for examination of import microbial blends in the
environmental protection-Part 9: Diarrheogenic Escherichia coli**

入境环保用微生物菌剂检测方法 第9部分：致泻大肠埃希氏菌

(English Translation)

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Foreword

SN/T 4624 "inbound environmental testing methods using microbial agents" is divided into 17 parts.

- Part 1. *Bacillus licheniformis*;
- Part 2. *Bacillus pumilus*;
- Part 3. *Bacillus megaterium*;
- Part 4. *Acidithiobacillus ferrooxidans*;
- Part 5. beta-hemolytic streptococcus;
- Part 6. *Staphylococcus aureus*;
- Part 7. *Salmonella*;
- Part 8. *Shigella*;
- Part 9. Diarrhea caused by *Escherichia coli*;
- Part 10. *Paecilomyces lilacinus*;
- Part 11. Elegant small ginkgo mildew;
- Part 12. *Trichoderma harzianum*;
- Part 13. *Phanerochaete chrysosporium*;
- Part 14. *Curvularia*;
- Part 15. *Bacillus amyloliquefaciens*;
- Part 16. Alkaloid-like-producing *Pseudomonas*;
- Part 17. *Pseudomonas putida*.

This section is part 9 of the SN/T 4624.

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

This part of the national certification and accreditation supervision and management committee proposed and centralized.

This part of the drafting unit. People's Republic of China Liaoning Exit Inspection and Quarantine.

1 Scope

This part of SN/T 4624 specifies the morphological identification of diarrhea Escherichia coli hygienic test of microbial inoculant for entry into the environment, Biochemical identification, general PCR, real-time fluorescence PCR detection method.

This section applies to inbound environmental Microbial agents in diarrhea Escherichia coli detection and identification.

2 Normative references

The following documents for the application of this document is essential. For dated references, only the dated version applies to this article Pieces. For undated references, the latest edition (including all amendments) applies to this document.

GB/T 6682 analytical laboratory water specifications and test methods

3 Main reagents and medium

3.1

Experimental water should be consistent with a water GB/T 6682 specifications.

3.2

Saline. See A.1 in Appendix A.

3.3

Nutritious broth. See A.2.

3.4

intestinal bacteria broth see A.3.

3.5

MacConkey Agar. See A.4.

3.6

Eosin Blue agar. See A.5.

3.7

trisaccharide iron agar. See A.6.

3.8

Cladisilide iron agar See A.7.

3.9

Sugar fermentation tubes (lactose, rhamnose, xylose and mannitol). See A.8.

3.10

Lysine decarboxylase test medium. See A.9.

3.11

Urea agar. See A.10.

3.12

Potassium cyanide See A.11.

3.13

peptone water, indigo reagent see A.12.

3.14

Semi-solid agar See A.13.

3.15

Oxidase Reagents. See A.14.

3.16

Gram staining solution See A.15.

3.17

pathogenic *Escherichia coli* diagnosis of serum, invasive diagnosis of *Escherichia coli* serum, enterotoxigenic *Escherichia coli* diagnosis of blood Qing, hemorrhagic *Escherichia coli* diagnosis of serum.

3.18

bacterial genomic DNA extraction kit.

3.19

TE buffer (pH 8.0). See A.16.

3.20

Lysozyme (10 mg/mL). See A.17.

3.21

Proteinase K (20 mg/mL). See A.18.

3.22 10% SDS. See A.19.