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SN

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

SN/T 3486-2013

**Quarantine protocol for necrotizing hepatopancreatitis of
shrimp**

(English Translation)

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Foreword

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

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

This standard was drafted. People's Republic of China SZCIQ, People's Republic of China Shandong Entry-Exit Inspection and Quarantine Bureau of Shenzhen Inspection and Quarantine Science Research Institute.

1 Scope

This standard specifies the shrimp bacterial liver tissue sections of pancreatic necrosis disease, polymerase chain reaction and dot hybridization method.

This standard applies to epidemiology, diagnosis, and monitoring of quarantine bacterial shrimp pancreatic necrosis liver disease.

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/T 18088 Entry and Exit Animal Quarantine sampling

3 Disease Overview

Shrimp, liver disease pancreatic necrosis (Necrotizinghepatopancreatitis; NHP) is a liver pancreatic necrosis bacteria (Necrotizinghepatopan-creatitisbacterium; NHPB) caused by

shrimp disease. Liver and pancreatic necrosis is a gram-negative bacteria, about the size of $0.25\mu\text{m} \times 0.9\mu\text{m}$, polymorphic, obligate intracellular parasites. (See Appendix A)

4 Abbreviations

The following abbreviations apply to this document.

DIG. digoxin (Digoxigenin) NHP. Shrimp bacterial liver disease pancreatic necrosis (Necrotizinghepatopancreatitis) NHPB. shrimp hepatopancreas necrotizing bacteria (Necrotizinghepatopancreatitisbacterium) PCR. polymerase chain reaction (Polymerasechainreaction)

5 Reagents and materials

5.1

Except where noted otherwise, the present standard biochemical reagents were of analytical grade reagents.

5.2

Except where noted otherwise, test water should comply with GB/T 6682 a water specifications.

5.3

formaldehyde.

5.4

acetic acid.

5.5

paraffin.

5.6

xylene.

5.7

pairs of hydroquinone.

5.8

citric acid.

5.9

silver nitrate.

5.10

ethanol.