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INDUSTRY STANDARD OF THE PEOPLE'S REPUBLIC OF CHINA

SN/T 3330-2012

Protocol of identification for Tachypleus tridentatus. PCR method

中国鲎物种鉴定方法 PCR方法

(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 Structure does not bear 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 Yantai Exit Inspection and Quarantine, People's Republic of China Shandong Entry-Exit Inspection and Quarantine Bureau.

1 Scope

This standard specifies the Chinese horseshoe crab species by PCR method.

This standard applies to entry and exit aquatic and biological preparations containing Chinese horseshoe crab ingredient identification of Chinese horseshoe crab.

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 SN/T 1193 genetic testing laboratory technical requirements

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3 Terms and Definitions

The following terms and definitions apply to this document.

Polymerase chain reaction polymernasechainreaction; PCR in thermostable DNA polymerase and a pair of primers (tested with target nucleic acid molecule sequences homologous DNA fragments) at high temperature (DNA points Sub-denatured) and low temperature (primer profit target nucleic acid molecule complex nature and thermostable DNA polymerase extension) alternating cycles of amplification of the target nucleic acid test Child approach.

Principle 4

Chinese horseshoe crab (morphological characteristics see Appendix A) sample after extraction of total genomic DNA, the use of specific primers designed by conventional PCR specific amplification technology Chinese horseshoe crab mtDNACOX3 gene fragment (349bp). Chinese horseshoe crab samples is determined according to the results of PCR amplification is Chinese horseshoe crab species. Specific primers by mtDNA than Chinese horseshoe crab, Limulus round tail, American horseshoe crab, Limulus and other mostly southern horseshoe crab COX3 gene fragments designed.

5.1 Equipment

PCR, tissue grinder, clean table, ice maker, high-speed refrigerated centrifuge, water bath, small desktop centrifuge, a conventional refrigerator, Vortex, electrophoresis, gel imaging system.

5.2 Reagents

Unless otherwise specified, all reagents were of analytical grade.

5.2.1

Water. should be consistent with GB/T 6682 in a water specifications. For PCR (including nucleic acid extraction) are used when water with DEPC at Treated to remove RNA enzyme.

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