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INDUSTRY STANDARD OF THE PEOPLE'S REPUBLIC OF CHINA

SN/T 3483-2013

Identification protocol for Trachidermus fasciatus. PCR

松江鲈鱼的物种鉴定方法 PCR方法

(English Translation)

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Foreword

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

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

This standard was drafted. People's Republic of China Shandong CIQ.

1 Scope

This standard specifies the technical specifications Songjiang perch species identification PCR methods.

This standard applies to germplasm Songjiang perch.

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

3 Terms and Definitions

The following terms and definitions apply to this document.

Ct value of the cycle threshold Inflection corresponding to the real-time PCR cycles when the fluorescent signal from the background into the exponential growth phase.

Amplification curve in real-time PCR reaction, the template is amplified, real-time PCR

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product was subjected to linear growth, exponential growth phase and the platform of the three stages, the amount of real-time fluorescence quantitative PCR product changes with time and the curve obtained.

4 Technical principles

This experiment was conserved and specific primers were designed to explore the use of Songjiang perch and cytochrome b (Cytochromeb, Cytb) gene Needle, establish real-time PCR method. The method is based on the conventional PCR, to add a specific fluorescent probe. Probe for the period of oligonucleotides, both ends of the report marks a fluorophore and a quencher fluorophore. The probe is intact, the reporter group launched the fluorescent signal is quenched group absorption; real-time quantitative PCR amplification, Taq polymerase 5'-3 'exonuclease activity of the enzyme degradation of the probe, so that Report fluorophore and quencher fluorophore separate, thus fluorescence monitoring system can receive the fluorescent signal, that is, each strand of DNA amplification, There is a fluorescent molecule is formed to achieve the formation and accumulation of PCR product fluorescent signal completely synchronized. This method has the real-time, quantitative, Specificity, high sensitivity advantages.

5.1 Experimental water

Shall comply with GB/T 6682's.

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