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INDUSTRY STANDARD OF THE PEOPLE'S REPUBLIC OF CHINA

SN/T 3589.5-2013

Identification of fish species in export food. Part 5: Detection of yellow croaker ingredient. Real-time PCR method

出口食品中常见鱼类及其制品的鉴伪方法 第5部分:黄鱼成分检测 实时荧光PCR法

(English Translation)

Issued on: November 6, 2013 **Implemented on: June 1, 2014**

Issued by: General Administration of Customs

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Foreword

SN/T 3589 "Common fish and their products in food exports Discriminating method" is divided into seven sections.

--- Part 1. Grouper component detecting real-time PCR method;

--- Part 2. monkfish component detecting real-time PCR method;

--- Part 3. salmon component detecting real-time PCR method;

--- Part 4. puffer fish component detecting real-time PCR method;

--- Part 5. yellow croaker component detecting real-time PCR method;

--- Part 6. Tuna component detecting real-time PCR method;

--- Part 7. cod component detecting real-time PCR method.

This section SN/T Section 53589 of.

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

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

This section drafted by. China Inspection and Quarantine Science Research Institute, People's Republic of China Liaoning Exit Inspection and Quarantine, Liaoning University.

1 Scope

SN/T 3589 provisions of this part of the real-time PCR detection methods in food fish export component.

This section is intended for use in food fish, including large yellow croaker (Pseudosciaenacrocea) and small yellow croaker (Psendosciaena polyactis) and its products Kam pseudo qualitative detection.

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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 27403 laboratory quality control of food molecular biology standardized testing

3 Terms and Definitions

The following terms and definitions apply to this document.

Fish Pseudosciaena

Fish into large yellow croaker and small yellow croaker are two kinds of membership Pisces, bony fish subclass, Perciformes, Sciaenidae, fish genus, were China's four major One species of marine industry. Large yellow croaker distributed in the southern Yellow Sea, East China Sea and South China Sea, small yellow croaker distributed in the Yellow Sea, Bohai Sea, East China Sea and North West coastal.

Real-time fluorescence PCR real-timePCR Join fluorophore in the PCR reaction system, the use of real-time monitoring of the accumulation of the fluorescent signal of the PCR amplification process.

Ct values cyclethresholdvalue when the number of cycles of each reaction tube fluorescent signal reaches the set value of the field experienced.

4 Abbreviations

DNA. deoxyribonucleic acid (deoxyribonuleicacid) dNTP. deoxynucleotide triphosphate (deoxyribonucleosidetriphosphate) CTAB. cetyl trimethyl ammonium bromide (cetyltrithylammoniumbromide) Tris. Tris (hydroxymethyl) aminomethane [tris (hydroxymethyl) aminomethane]

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