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INDUSTRY STANDARD OF THE PEOPLE'S REPUBLIC OF CHINA

SN/T 3589.6-2013

Identification of fish species in export food. Part 6: Detection of tuna fish ingredient. Real-time PCR method

出口食品中常见鱼类及其制品的鉴伪方法 第6部分:金枪鱼成分检测 实时荧光PCR法

(English Translation)

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Preview: page 1 of 3 shown, 7 in the full document. Complete English PDF, instant download:
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Table of Contents

Foreword
1 Scope
2 Normative references
3 Terms and Definitions
4 Abbreviations

Foreword

SN/T 3589 "Common fish and their products in food exports Discriminating method" is divided into the following 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 63589 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 Shandong CIQ.

1 Scope

SN/T 3589 provisions of this part of the real-time PCR detection in food exports tuna component.

This section applies to foods bigeye tuna (Thunnusobesus), yellowfin tuna (Thunnusalbacares) and albacore tuna Fish (Thunnusalalunga) and other tuna 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.

Tuna Thunnus

Tuna (Thunnus), Perciformes (Perciformes) scombrid (Scombridae) Large pelagic important commodity food fish collectively.

Found worldwide in warm seas, and mackerel,, Spanish mackerel and other relatives, usually with scribe Scombridae. Commonly referred to as tuna fish bigeye tuna trade (Thunnusobesus), albacore tuna (Thunnusalalunga), yellowfin tuna (Thunnusalbacares), bluefin tuna (Thunnusthynnus) and flying fish (Katsuwonuspelamis).

Real-time fluorescence PCR real-timePCR Join specific fluorescent probes in the PCR reaction system. The probe is an oligonucleotide, complementary to the target sequence, labeled at both ends Report a fluorophore and a quenching fluorophore. PCR amplification, Taq enzyme 5 -> '3' exonuclease activity of the enzyme degradation of the probe, Make the report fluorophore and quencher fluorophore separate, thus fluorescence monitoring system may receive the fluorescence signal. Use real accumulation of the fluorescent signal when monitoring throughout the PCR process.

Ct values cyclethresholdvalue the number of cycles when fluorescence signal for each real-time PCR reaction tube reaches a set threshold experienced.

4 Abbreviations

The following abbreviations apply to this document.

SDS. sodium dodecyl sulfate (sodiumdocecylsulfate)

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