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# INDUSTRY STANDARD OF THE PEOPLE'S REPUBLIC OF CHINA

# SN/T 3589.7-2013

## Identification of fish species in export food. Part 7: Detection of cod 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7部分:鳕鱼成分检实时荧光PCR法

**(English Translation)**

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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 73589 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 Shanghai Exit Inspection and Quarantine, the People's Republic of China State and Shandong CIQ.

## 1 Scope

SN/T 3589 provisions of this part of the real-time PCR detection methods cod ingredients in food for export.

This section applies to foods Pacific cod (Gadusmacrocephalus), Atlantic cod (Gadusmorhua), haddock (Melanogrammusaeglefinus), green cod (Pollachiusvirens), blue



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whiting (Micromesistiuspoutassou), pollock (Pollachiuspollachius), pollock (Theragrachalcogramma), South Africa hake (Merlucciuscapensis), Argentina Hake (Merlucciushubbsi), North Pacific hake (Merlucciusproductus) and the like cod products Kam pseudo qualitative Testing.

## 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.

Cod cod

Cod-shaped head (OrderGadiformes) fish, mainly refers to fish cod (Gadidae) and hake Section (Merlucclidae) of.

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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