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INDUSTRY STANDARD OF THE PEOPLE'S REPUBLIC OF CHINA

SN/T 3589.4-2013

Identification of fish species in export food. Part 4: Detection of puffer fish ingredient. PCR method

出口食品中常见鱼类及其制品的鉴伪方法 第4部分：河豚鱼成分检测 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, definitions and abbreviations

3.1 Terms and Definitions

3.2 Acronyms

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 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 43589 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 Fujian Exit Inspection and Quarantine.

1 Scope

SN/T 3589 provisions of this part of the qualitative PCR detection method puffer fish ingredient in food for export.

This section applies to three genera [including buck puffer genus (Lagocephalus), the genus Fugu (Takifugu), abdominal stab puffer genus (Gastro-physus)] 9 Zhong puffer fish

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[including black buck cheek puffer (Lagocephalusinermis), buck puffer (Lagocephaluslagocephalus), Obscure Puffer (Takifugufasciatus), yellow puffer (Takifuguxanthopterus), stripes Puffer (Takifuguob-longus), rubripes (Takifugurubripes), dark fins abdominal thorn puffer (Gastrophysusgloveri), abdominal stab puffer month (Gastrophysuslunaris), brown spots abdominal thorn puffer (Gastrophysusspadiceus)] and its products Kam pseudo qualitative detection.

2 Normative references

The following documents for the application of this document is essential. For dated references, only the version of nozzle suitable for use herein Member. For undated references, the latest edition (including any amendments) suitable for the present 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, definitions and abbreviations

The following terms and definitions adapted to the present document.

3.1 Terms and Definitions

3.1.1

Puffer fish Puffer fish, puffer scientific name (English name. pufferfish), the animal kingdom, phylum, subphylum Chordata, Osteichthyes, subclass Actinopterygii fish, Tetraodontiformes, suborder puffer, Branch, China's main Fugu species, genus abdominal thorn dolphin, head buck genus. Usually it refers tetraodontiformes in Porcupinefish (Di-odontidae), tridentate puffer Branch (Triodontidae), pufferfish (Tetraodontidae) and ostraciidae (Ostraciontidae) belongs Fish, a common feature of the abdomen or balloon bubbles with prickles, almost all types of puffer fish contain tetrodotoxin are (TTX), which is a highly toxic God by toxins, people ingested poison 0.5mg ~ 3mg dolphin can be fatal.

3.2 Acronyms

The following abbreviations apply to this document.

DNA. deoxyribonucleic acid (deoxyribonuleicacid) dNTP. deoxynucleotide triphosphate (deoxyribonucleosidetriphosphate) CTAB. cetyl trimethyl ammonium bromide (cetyltrithylammoniumbromide) Cytb genes. cytochrome oxidase genes in higher organisms, cell mitochondria (Cytb) EDTA. ethylenediaminetetraacetic acid (ethylenediaminetetraaceticacid) OD. optical density (opticaldensity)

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