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INDUSTRY STANDARD OF THE PEOPLE'S REPUBLIC OF CHINA

SN/T 3589.1-2013

Identification of fish species in export food. Part 1: Detection of grouper ingredient. Real-time PCR method

出口食品中常见鱼类及其制品的鉴伪方法 第1部分:石斑鱼成分检测 实时荧光PCR法

(English Translation)

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

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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 13589 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, Xiamen People's Republic of China Exit Inspection and Quarantine, the People's Republic of China Shanghai Exit Inspection and Quarantine and the State.

1 Scope

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

This section applies to food in four genera [genus grouper (Epinephelus), the amount of bass wide genera (Promicrops), coral trout genus (Plec-tropomus) and finned grouper genus (Cromileptes)] 10 grouper species [including red grouper (Epinephelusakaara),

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moire grouper Fish (Epinephelus moara), brown-spotted grouper (Epinephelusfuscoguttatus), grouper (Epinephelus coioides), banded grouper (Epinephelusawoara), hawksbill grouper (Epinephelusquoyanus), wide forehead perch (Promicrops lanceolatus), leopard coral trout (Plectropomusleopardus), spotted coral trout (Plectropomusmaculatus) and humpback perch Qualitative detection (Cromileptesaltivelis)] and its products Kam pseudo.

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.

Grouper

Grouper (English name grouper), under the Pisces, the fish subclass Actinopterygii, Perciformes, Section (Serranidae), refers to each subfamily grouper Genus of fish, including grouper genus (Epinephelus), beak perch genus (Mycteroperca), nine spines perch genus (Cephalopholis), coral trout Genus (Plectropomus), yellow-edged lyretail genus (Variola), fiber seabass genus (Gracila), Toyo perch genus (Niphon), grouper genus (Triso) and the like. stone Grouper fish widely distributed in tropical and subtropical waters worldwide for sedentary fish, no long distance migratory ability. Currently two Flora grouper (India - Western Pacific and Atlantic Department - Eastern Pacific Flora) grouper species does not substantially duplicate. China Sea has 10 genera and about 30 Species, mainly distributed in the East China Sea, South China Sea.

Real-time fluorescence PCR real-timePCR when PCR amplification was added with a fluorescent probe specific groups (Taqman probes) or a fluorescent dye, so that the accumulation of PCR products Cumulative fluorescent signal fully synchronized, real-time monitoring of PCR products.

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

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