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INDUSTRY STANDARD OF THE PEOPLE'S REPUBLIC OF CHINA

SN/T 3731.5-2013

Identification of poultry ingredient in food and feed. Part 5: Detection of duck ingredient. PCR method

食品及饲料中常见禽类品种的鉴定方法 第5部分:鸭成分检测 PCR法

(English Translation)

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Foreword

SN/T 3731 "Identification of Food and Feed common bird species" is divided into the following six sections.

--- Part 1. quail component detecting PCR method;

--- Part 2. Geese component detecting PCR method;

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

--- Part 4. Components of turkey real-time PCR method;

--- Part 5. duck component detecting PCR method;

--- Part 6. partridge component detecting real-time PCR method.

This section SN/T Section 53731 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. Chinese Academy of Inspection and Quarantine, Shenzhen People's Republic of China Exit Inspection and Quarantine, Shenzhen test Quarantine Science Research Institute.

1 Scope

This section SN/T 3731 provisions of the PCR method of food and feed ingredients duck very measured.

This section applies to the qualitative detection of food and feed ingredients duck.

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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.

Polymerase chain reaction; PCR Method for amplifying DNA in vitro. PCR was performed using a heat-resistant polymerase, and two single-stranded primer containing about 20 bases Thereof. After separating the high temperature denaturation of template DNA into two strands, so that low-temperature annealing of primers and a combination of single-stranded template and then extended temperature Extension, the reaction was followed by the free nucleotide primers from the 5 'to 3' synthesis of a new complementary strand. The newly synthesized DNA and can continue Continued above-described cycle, so that the number of DNA continue to multiply.

TaqDNA enzyme ThermusaquaticusDNApolymerase Thermusaquaticus bacteria extracted from the thermostable DNA polymerase.

4 Abbreviations

The following abbreviations apply to this document.

dNTP. deoxyribonucleoside triphosphate (deoxy-ribonucleosidetriphosphate) CTAB. cetyl trimethyl ammonium bromide (cetyltrithylammoniumbromide) Tris. Tris (hydroxymethyl) aminomethane [tris (hydroxymethyl) aminomethane] EDTA. ethylenediaminetetraacetic acid (ethylenediaminetetraaceticacid) DNAMarker. nucleic acid molecular weight standards

5 Method summary

The samples were mixed grinding, extracting DNA, DNA as a template, using duck mitochondrial cytochrome C oxidase III gene-specific detection

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