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INDUSTRY STANDARD OF THE PEOPLE'S REPUBLIC OF CHINA

SN/T 3731.3-2013

Identification of poultry ingredient in food and feed. Part 3: Detection of dove ingredient. Real-time PCR method

食品及饲料中常见禽类品种的鉴定方法 第3部分:鸽子成分检测 实时荧光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 33731 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

SN/T 3731 provisions of this part of the food and feed pigeons (Columba livia) component detected by real-time PCR method.

This section applies to food and feed pigeons qualitative detection (pigeon) component.

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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.

Real-time fluorescence PCRrealtimePCR 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 cyclethreshold the number of cycles when fluorescence signal of each reaction tube reaches a set threshold experienced.

4 Abbreviations

The following abbreviations apply to this document.

DNA. deoxyribonucleic acid (deoxyribonuleicacid) dNTP. deoxyribonucleoside triphosphate (deoxy-ribonucleosidetriphosphate) PCR. polymerase chain reaction (polymerasechainreaction) ROX. 6- carboxy -X- rhodamine (6-carboxyl-X-Rhodamine) CTAB. cetyl trimethyl ammonium bromide (cetyltrithylammoniumbromide) Tris. Tris (hydroxymethyl) aminomethane [tris (hydroxymethyl) aminomethane] EDTA. ethylenediaminetetraacetic acid (ethylenediaminetetraaceticacid)

5 Method summary

The samples were mixed grinding, extracting DNA, DNA as a template, using pigeons mitochondrial gene-specific primers for detecting 16sRNA

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