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INDUSTRY STANDARD OF THE PEOPLE'S REPUBLIC OF CHINA

SN/T 3730.5-2013

Identification of domestic animal ingredient in food and feed. Part 5: Detection of horse ingredient. Real-time PCR method

食品及饲料中常见畜类品种的鉴定方法 第5部分:马成分检测 实时荧光PCR法

(English Translation)

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Foreword

SN/T 3730 "Identification of common food and feed livestock species" is divided into the following eight sections.

--- Part 1. mink component detecting real-time PCR method;

--- Part 2. Dogs component detecting real-time PCR method;

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

--- Part 4. Donkey component detecting real-time PCR method;

--- Part 5. Horse component detecting real-time PCR method;

--- Part 6. cats component detecting real-time PCR method;

--- Part 7. Buffalo component detecting real-time PCR method;

--- Part 8. Pig component detecting real-time PCR method.

This section SN/T 3730 Part 5.

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 3730 provisions of this part of the real-time PCR method for food and feed ingredients derived horse detection.

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This section applies to food and feed ingredients derived horse qualitative detection.

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 PCR realtimePCR 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-carboxy1-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 the horse mitochondrion ATPase6 gene-specific primers and detection

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