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INDUSTRY STANDARD OF THE PEOPLE'S REPUBLIC OF CHINA

SN/T 3586-2013

Quarantine protocol for scrapie resistance gene genotyping

羊瘙病抗性基因型检测方法

(English Translation)

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Foreword

This standard was drafted in accordance with GB/T 1.1-2009 given rules.

This standard is proposed and managed by the National Certification and Accreditation Administration Committee.

This standard was drafted. Tianjin People's Republic of China Exit Inspection and Quarantine, People's Republic of China Entry-Exit Inspection and Yantai Quarantine Bureau.

1 Scope

This standard specifies the method for detection of scrapie resistant genotypes.

This standard applies to blood samples of sheep scrapie genotyping prion protein coding genes.

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

3 Abbreviations

The following abbreviations apply to this document.

PRNP. 1 prion protein gene (prionprotein) Real-TimePCR.
Real-TimePolymeraseChainReaction real-time quantitative PCR DNA. deoxyribonucleicacid

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DNA EDTA dipotassium salt. C10H14K2N2O8. 2H2O ethylenediaminetetraacetic acid dipotassium salt

4 Test principle

Scrapie outlined in Appendix A.

The pathogen causes scrapie prion protein is abnormal eggs a normal sialic acid glycoprotein (PrPc) after the formation of the secondary structure change White (PrPsc). Occurrence of the disease is closely related to the sheep prion protein encoding gene PRNP genetic diversity, mainly in the first PRNP 136,154 and 171 of PRNP codon composition of genotype and sheep scrapie resistance contact. According to GenBank.

PRNP sequences were designed and synthesized three sets of specific primers and Taqman probe, with real-time quantitative PCR system and the After the end of read modes, for the first 136,154 and 171 PRNP codon is detected, is used to determine whether the detected sheep containing biography Infectious scrapie resistance gene.

5.1 Reagents

5.1.1
Each type of sheep PRNP Standard. 136 homozygous, 154 homozygous 171-1, 171-2 homozygous.

5.1.2
Gene Amplification Mix. TaqmanUniversalPCRMasterMix or other gene amplification master mix.

5.1.3
Genomic DNA extraction kit.

5.1.4 50mg/mL of the EDTA.

5.1.5
double-distilled water. In line with GB/T 6682 requirements.

5.1.6
water for injection.

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