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**INDUSTRY STANDARD OF THE
PEOPLE'S REPUBLIC OF CHINA**

SN/T 3494-2013

**Protocol of the PCR method for screening genetically modified
component in animals and their derived products
(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. China Inspection and Quarantine Science Research Institute, People's Republic of China Anhui Exit Inspection and Quarantine, China Agricultural Science, People's Republic of China Hainan Entry-Exit Inspection and Quarantine, Ningbo People's Republic of China.

1 Scope

This standard specifies the genetically modified animals and their processed products in PCR detection methods.

This standard applies to animals and their processed products are GMO screening tests.

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 20190 qualitative detection of qualitative polymerase chain reaction and sheep derived materials in feed (PCR) method GB/T 21101 animal feed pigs derived materials PCR method

3 Terms and Definitions

The following terms and definitions apply to this document.

Transgenic transgene this species does not have the will, from other species of functional

DNA sequences, by introducing a variety of means to carry out the species Expression, in order for the species to obtain new varieties of features.

4 Abbreviations

The following abbreviations apply to this document.

bp bp (basepair).

CMV promoter. the human cytomegalovirus (humancytomegaloviruspromoter).

dATP. deoxyadenosine triphosphate (deoxyadenosinetriphosphate).

dCTP. deoxycytidine triphosphate (deoxycyticinetriphosphate).

dGTP. deoxyguanosine triphosphate (deoxyguanosinetriphosphate).

dNTP. deoxynucleotide triphosphate (deoxyribonucleosidetriphosphate).

dTTP. deoxythymidine triphosphate (deoxythymidinetriphosphate).

DNA. deoxyribonucleic acid (deoxyribonucleicacid).

GFP. green fluorescent protein (greenfluorescentprotein).

NPTII. neomycin 3'-phosphotransferase gene (neomycin-3'-phosphotransferasegene).

SV40. simian virus 40 (SimianVacuolatingvirus40).

Taq DNA. DNA polymerase.

TE. Tris-HCl, EDTA buffer.