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INDUSTRY STANDARD OF THE PEOPLE'S REPUBLIC OF CHINA

SN/T 3496-2013

Protocol of the real-time PCR for detecting genetically modified component in animal-originated-feedstuffs

动物源性饲料中转基因成分实时荧光PCR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. China Inspection and Quarantine Science Research Institute, People's Republic of China Anhui Exit Inspection and Quarantine, the People's Republic of China and country SZCIQ, China Agricultural University, Beijing Animal Husbandry and Veterinary.

1 Scope

This standard specifies the method for real-time PCR testing of genetically modified animal feed.

This standard applies to pigs, cattle, sheep, animal feed GMO real time PCR test.

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.

beta2m. beta2-microglobulin (beta2-microglobulin) bp. base pairs (basepair) CMV. CMV (cytomegalovirus) Ct. each reaction cycle number (cyclethreshold) fluorescence signal within the tube reaches the set threshold experienced dATP. triphosphate

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(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) PCR. polymerase chain reaction (polymerasechainreaction) SV40. simian virus 40 (SimianVacuolatingvirus40) Taq DNA. DNA polymerase.

TE. Tris-HCl, EDTA buffer Tris. Tris (hydroxymethyl) aminomethane (trishydroxymethylaminomethane)

4 Experimental Method

4.1
The main instruments

4.1.1
Real-Time PCR instrument.

4.1.2
clean bench.

4.1.3
Sterilization pot.

4.1.4
Vortex.

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