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INDUSTRY STANDARD OF THE PEOPLE'S REPUBLIC OF CHINA

SN/T 3495-2013

Protocol of the real-time PCR for detecting genetically modified component in cows and their derived products

牛及其产品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, China Agricultural Science, animal husbandry and veterinary station in Beijing, People's Republic of China Ningbo Exit Inspection and Quarantine.

1 Scope

This standard specifies the cattle and real-time PCR detection method for genetically modified ingredients in processed products.

This standard applies to transfer human lactoferrin gene cows transferee alpha- lactalbumin gene cows, human lysozyme gene transfer cows and meat Products, dairy products and other real-time PCR detection of genetically modified organisms.

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).

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CMV. CMV (cytomegalovirus).

Ct. each reaction cycle number (cyclethreshold) fluorescence signals within the tube reaches the set threshold experienced.

dATP. deoxyadenosine triphosphate (deoxyadenosinetriphosphate).

dCTP. deoxycytidine triphosphate (deoxycyticinetriphosphate).

dGTP. deoxyguanosine triphosphate (deoxyguanosinetriphosphate).

dTTP. deoxythymidine triphosphate (deoxythymidinetriphosphate).

dUTP. deoxyuridine triphosphate (deoxyuridinetriphosphate).

DNA. deoxyribonucleic acid (deoxyribonucleicacid).

GFP. green fluorescent protein (GreenFluorescentProtein).

hLA. human whey protein (huamanlactobumin).

hLF. human lactoferrin (huamanlactoferrin).

hLY. human lysozyme (huamanlysozyme).

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

SV40. simian virus 40 (SimianVacuolatingvirus40).

PCR. polymerase chain reaction (polymerasechainreaction).

Taq enzyme. Polymerase (DNA).

TE. Tris-Hcl, EDTA buffer.

Tris. Tris (hydroxymethyl) aminomethane (trishydroxymethylaminomethane).

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